

COMMITTEE HEARING  
BEFORE THE  
CALIFORNIA ENERGY RESOURCES CONSERVATION  
AND DEVELOPMENT COMMISSION

In the Matter of: )  
 )  
Preparation of the 2005 Integrated ) Docket No.  
Energy Policy Report ) 04-IEP-1K  
 )  
Re: Availability of the 2005 )  
Committee Draft Energy Report. )  
 )  
Electricity Needs and )  
Procurement Policies (Chap 3) )  
Transmission Challenges )  
(Chap 5) )  
\_\_\_\_\_ )

CALIFORNIA ENERGY COMMISSION  
HEARING ROOM A  
1516 NINTH STREET  
SACRAMENTO, CALIFORNIA

FRIDAY, OCTOBER 7, 2005

9:05 A.M.

Reported by:  
Peter Petty  
Contract No. 150-04-002

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345

COMMISSIONERS PRESENT

John Geesman, Presiding Member

James Boyd, Associate Member

Joseph Desmond, Chairperson

ADVISORS PRESENT

Michael Smith

Melissa Jones

STAFF and CONTRACTORS PRESENT

Kevin Kennedy

Lynn Marshall

ALSO PRESENT

Robert Freehling  
Local Power

Barbara George  
Women's Energy Matters

Steven Kelly  
Independent Energy Producers Association

Gregory T. Blue  
Dynergy, Inc.  
representing West Coast Power

Gary Ackerman  
Western Power Trading Forum

Robert Anderson  
San Diego Gas and Electric Company

Jane Turnbull  
League of Women Voters of California

Audrey Chang  
Natural Resources Defense Council

ALSO PRESENT

Alvin Pak  
Sempra Energy Global Enterprises  
Sempra Utilities

Bruce McLaughlin, Attorney  
Braun & Blaising, PC  
representing California Municipal Utilities  
Association

Stuart Hemphill  
Southern California Edison Company

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## P R O C E E D I N G S

9:05 a.m.

PRESIDING MEMBER GEESMAN: We've got a variety of things to do today. Firstly, this is day 58 of the IEPR process. I'm John Geesman, the Presiding Member of the IEPR Committee. To my left, Commissioner Jim Boyd, the Associate Member. to my far right, Joe Desmond, the Commission's Chair. To my immediate right, Melissa Jones, my Staff Advisor.

Today we have two topics. One being the electricity demand forecast and associated supply issues. The second being the same issues regarding natural gas.

What we're going to try and do is defer the natural gas issues until the afternoon. But I want to leave open the possibility that some of the electricity issues may spill over into the afternoon, as well, because of the indulgence of many of you of my schedule yesterday. We'll go as long as we need to today to finish up the discussion of each of our topics.

We do have a couple of holdovers from yesterday. And because they graciously agreed to defer their comments until today, I want to start

1       today's hearing, before we have the staff  
2       presentations, with a continuation of yesterday's  
3       discussion.

4               First up is Mr. Freehling from Local  
5       Power.

6               MR. FREEHLING:   Good morning and thank  
7       you, Commissioners.

8               Local Power is concerned with the other  
9       side of the system than the one that mostly has  
10      been discussed and will be discussed today.   We're  
11      interested in the side that's on the distribution  
12      end.

13              And what we'd like to see at Local Power  
14      is the distribution end of the electricity system  
15      become a real resource.   At the moment there are a  
16      lot of impediments to making this happen.   Part of  
17      it, of course, is that we're thinking in terms of  
18      supply for the electricity system.   We're thinking  
19      in terms of building more generators on the other  
20      end of the distribution system, at the other end  
21      of the transmission system.   That means you have  
22      to build more transmission lines; that means you  
23      have to build more power plants.

24              The problem with that model is that when  
25      you place a power plant on the other end of a

1 transmission system, you have line losses between  
2 the generator and the point of consumption.

3 That's one problem. Another problem is that you  
4 have to build very expensive transmission lines.

5 These two costs create a burden on the  
6 system that can be lifted to some extent by  
7 placing resources on the other end, on the  
8 distribution end. And there's some of these  
9 benefits that are obvious and well known. Some of  
10 these are maybe perhaps not quite so well known.

11 It's on this basis that I disagree  
12 partly with the analysis given yesterday on the  
13 question of comparing combined heat and power with  
14 a combined cycle generator.

15 If combined heat and power is placed on  
16 the distribution end of the system as part of  
17 distributed generation it doesn't exhibit the line  
18 losses which, in California, amount to over 8  
19 percent, at least according to most of the  
20 estimates that are circulated at the Energy  
21 Commission. That's a huge amount of electricity  
22 that's lost.

23 So any resource that's placed on the  
24 distribution end is going to immediately likely  
25 save about 8 percent of the power. And it could



1        actually do significantly better than this.

2                Recent study by Tom Hoff for the  
3        Sacramento Municipal Utility District, which we're  
4        located in, showed that distributed power, when  
5        it's placed on a distribution network, can  
6        actually avoid losses in the distribution system  
7        for that entire local distribution branch. And  
8        not just simply the losses that would have  
9        happened because of the power generation being  
10       sent over the lines. It's like it's being held up  
11       on the other end of the board, not just on the  
12       other end of the transmission line. So you've got  
13       two ends that support the system.

14               So, there's a tremendous potential for  
15       saving energy, and one could, in fact, say that  
16       placing distribution resources, generation  
17       resources is actually an energy efficiency measure  
18       as much as it is a generation measure.

19               Now, there's several barriers that  
20       happen when we place distributed generation on the  
21       system. One of these, of course, is that our  
22       priority is to place renewables on that end. And  
23       some of these renewables are well known to be  
24       intermittent in generation. And some of them are  
25       even more intermittent, such as wind generation

1       when they're placed, for example, in the city than  
2       when they're placed on a large windfarm under  
3       optimal wind conditions.

4               So, intermittency is often more of a  
5       problem in an urban environment, say where the  
6       demand load is heavy, than where it would be --  
7       where it's placed on the other end of the  
8       transmission system.

9               Another problem with distributed power  
10       is that many of these distributed resources are  
11       not measured. And this has to do partly with the  
12       method in which we use to meter. Net metering,  
13       for example, which is placed on a PV system on a  
14       home or on a commercial site, does not measure the  
15       independent production of a PV system. So that PV  
16       system actually disappears behind the wall of this  
17       net meter.

18              This is one of the things that I found  
19       very exciting yesterday about the discussion of  
20       putting smarter meters on homes and businesses so  
21       that the meter could actually do more things.

22              A meter, for example, that could measure  
23       the independent production of a demand side  
24       resource would allow that resource to become real  
25       and visible on the system as opposed to one that

1 net meters only, where it erases the production  
2 record of that resource on the system.

3 Now, these barriers -- excuse me, I have  
4 to take off my glasses because I can't see up  
5 close with them on -- are further complicated by  
6 the fact that the rules that are set up for  
7 implementing distributed generation, as well as  
8 energy efficiency on the customer's end, are  
9 placed on a site-by-site basis.

10 In other words, when you have a rule  
11 that says that one PV system is going to be tied  
12 to one meter, which is the onsite requirement  
13 that's currently the rules and was going to be  
14 reinforced by the million solar roofs bill, which  
15 did not pass, and also by the renewable portfolio  
16 standard bill, a concern of Local Power's was that  
17 that was also going to be put in place.

18 We'd like to see that not in place  
19 because the ability to cooperate between different  
20 resources on the demand end would give it the edge  
21 that is given on the other end to renewable  
22 resources.

23 Yesterday there was a woman from the  
24 wind industry who spoke about how intermittency of  
25 wind generation is not really a problem anymore.

1 Now, she didn't describe why it wasn't a problem,  
2 but there are a number of solutions that are  
3 available in the wind industry which are not given  
4 on the customer's end of the deal.

5 One of these is the ability of one  
6 windmill on a farm to cooperate with another  
7 windmill on a farm. And it's well known that the  
8 further out you distribute windmills the more  
9 they're able to even out the irregularities of the  
10 performance of the other windmills.

11 So, by allowing the coordination of  
12 these resources they can balance out the  
13 production of the system as a whole. This  
14 coordination is currently not allowed in the  
15 system, for example implementing photovoltaics as  
16 a distributed resource, or wind power as a  
17 distributed resource. There's no coordination in  
18 the system. It's whoever happens to buy a PV  
19 system.

20 I'm not saying you shouldn't allow that,  
21 but some measure of integrating that system, both  
22 in terms of measuring what the output is, and also  
23 looking in terms of where and how can we  
24 strategically place these resources, and perhaps  
25 even prefer to place these resources using the

1 systems of subsidies that are at your disposal,  
2 such that it supports the grid in the optimal way.  
3 And such that each of these resources is actually  
4 working together with the others.

5 PRESIDING MEMBER GEESMAN: Would you see  
6 that integration task as a utility function, or do  
7 you have something else in mind?

8 MR. FREEHLING: Well, Local Power is  
9 responsible for bringing community choice to  
10 California. And so one of the main reasons why  
11 all these things have come to my table is because  
12 I've been considering how, for example, San  
13 Francisco can integrate distributed resources into  
14 its system.

15 And one-by-one I confront the barriers  
16 and impediments that are built into the rules and  
17 regulations of the state. For example, -- well,  
18 to answer your question I would not want to see  
19 only one model in place for this.

20 I think that what needs to happen for  
21 community choice, in any case, is to see the  
22 possibility of integrating the pieces of the  
23 puzzle together.

24 And I'd like to describe other elements  
25 that --

1                   PRESIDING MEMBER GEESMAN:   Okay.

2                   MR. FREEHLING:   -- I see, as well.   But  
3   the idea is to build actually an urban network of  
4   coordinated solar systems, as well as urban wind  
5   to the extent that that may be possible; tidal, as  
6   well as energy efficiency and conservation  
7   measures.

8                   PRESIDING MEMBER GEESMAN:   But I guess  
9   my question is coordinated by a single coordinator  
10   within, let's say a community choice jurisdiction?  
11   Or coordinated by dozens of independent generators  
12   fashioning partnerships?

13                  MR. FREEHLING:   Yeah, ideally I'd like  
14   to see that -- we'd like to see that integrated by  
15   the community choice aggregation --

16                  PRESIDING MEMBER GEESMAN:   Okay.

17                  MR. FREEHLING:   -- or by the electric  
18   service provider if they happen to be doing the  
19   system planning.   There are different models under  
20   which community choice can be implemented in that  
21   respect.

22                  PRESIDING MEMBER GEESMAN:   But you  
23   concept from an engineering standpoint is a single  
24   coordinator in a particular service territory?

25                  MR. FREEHLING:   Yes.   And for IOUs I see

1 absolutely no reason why that kind of resource  
2 integration couldn't happen on their end, as well.

3 Now, some of these would challenge some  
4 of the ownership and subsidy models that have been  
5 put in place.

6 PRESIDING MEMBER GEESMAN: What --

7 MR. FREEHLING: Well, for example, a  
8 model that was implemented by SMUD that was quite  
9 successful in the pioneer 1 program was actually  
10 having the utility own the PV systems on the roof.  
11 And this was a way to make PV, which was an  
12 expensive resource for many householders to  
13 afford, affordable by allowing them to either  
14 lease it from the utility or essentially buy  
15 photovoltaic electricity at the price of  
16 electricity. Even if that's at a premium, that  
17 makes it much more affordable to an individual to  
18 pay, even if it's 50 cents a kilowatt hour, it's  
19 more affordable to any person in society than it  
20 would be to go out and plunk down \$20,000 or more  
21 on a PV system.

22 PRESIDING MEMBER GEESMAN: And what  
23 concept does that challenge?

24 MR. FREEHLING: The current rebate  
25 systems, for example, are --

1                   PRESIDING MEMBER GEESMAN:   Okay.

2                   MR. FREEHLING:   -- structured so that  
3                   those kinds of ownership models would not be  
4                   rewarded with a rebate.

5                   PRESIDING MEMBER GEESMAN:   It challenges  
6                   the principle that all government programs are  
7                   fated to never change or evolve with changing  
8                   needs.

9                   MR. FREEHLING:   Yeah, I suppose that  
10                  would be one way of putting it.

11                  (Laughter.)

12                  MR. FREEHLING:   Another issue that I was  
13                  mentioning here was the coordination -- is  
14                  expanding that coordination between resources.  
15                  The intermittency of wind and particularly solar  
16                  power, means that in order to create a valuable  
17                  resource that actually fits within the electricity  
18                  system, you need to be able to firm that capacity.

19                  And there are a number of ways of doing  
20                  that.  NREL created a report, actually, where they  
21                  analyzed the case of California of implementing a  
22                  few gigawatts of solar power.

23                  And they showed that one of the things  
24                  that could be done in order to firm capacity of  
25                  solar would be to put a regulating device on the



1 electricity system so that if a cloud passed over  
2 a building, for example, it would cut out the air  
3 conditioner for the 15 minutes that the cloud was  
4 passing over.

5 So you'd coordinate the demand  
6 restriction with the demand controls with the  
7 production of the PV system output, which would  
8 limit the negative effects of either one. So that  
9 you're not necessarily turning off an air  
10 conditioner for hours and hours in a day when it's  
11 sunny or hot, which is when a commercial or  
12 residential customer doesn't want that air  
13 conditioner turned off.

14 And it would turn off the air  
15 conditioning load or reduce it during the time  
16 when the sun was gone, which is a time which would  
17 probably be more amenable to doing so.

18 So this was just sort of a key example  
19 of how to drawn connecting links between pieces of  
20 the distributed end of the network that could be  
21 extended quite far beyond just simply, for  
22 example, connecting the air conditioning load with  
23 the PV system.

24 PRESIDING MEMBER GEESMAN: Commissioner  
25 Desmond, did you have a question?

1                   CHAIRPERSON DESMOND: Just wanted to  
2     provide some sources of information, I guess,  
3     regarding the notion of coordination.

4                   One, that effort is currently underway,  
5     what you're asking or describing, both. EPRI had  
6     done some work with the Department of Energy  
7     through its gridwise alliance, in fact is focused  
8     on things like the self-healing grid, distributed  
9     intelligent agents, microgrids and just  
10    recognizing the implication is a requirement for  
11    real-time information exchange, --

12                  MR. FREEHLING: Right.

13                  CHAIRPERSON DESMOND: -- which is going  
14    to add a layer of cost onto that. Some of that  
15    work being done really deals with autonomous  
16    intelligent agent networks responding to either  
17    opportunities to optimize against price  
18    reliability.

19                  And so I think, again, my only comment  
20    is I think we could probably make reference to  
21    what's happening at the Department of Energy in  
22    that area that would help capture some of that.

23                  MR. FREEHLING: Well, you saved me from  
24    saying anything on that. Microgrids was, in fact,  
25    one of the things that I wanted to add, certainly,

1 as a possibility. And these are not necessarily  
2 supported by the legislation that has been put  
3 through recently with a million solar roofs bill,  
4 for example, which reinforced the onsite  
5 requirement. And as did the renewable portfolio  
6 standard bill that was recently put through.

7 And I think that at least it's necessary  
8 to remove the barriers to performing these things  
9 one by one. And the ability to implement and  
10 measure these things will grow as the  
11 sophistication of electronics progresses, if smart  
12 meters, for example, are placed on sites that  
13 actually have the ability to monitor these things.

14 Some of these are already existing in  
15 current inverters, for example, for photovoltaics,  
16 an option exists to place real-time monitoring.  
17 You don't need to have down to the last, you know,  
18 milliwatt in any case. Something that's close to  
19 within, you know, 5 percent, for example, of the  
20 production of any given PV system, as long as PV  
21 is representing less than 1 percent of the grid,  
22 in any case, is probably sufficient to get an idea  
23 of what it's contributing.

24 I'm sorry, did you have something to  
25 ask?

1                   PRESIDING MEMBER GEESMAN: I'm not clear  
2 on why you think the million solar roofs  
3 initiative created a barrier.

4                   MR. FREEHLING: It created a barrier to  
5 the extent that it reinforced the onsite rule. In  
6 other words, --

7                   PRESIDING MEMBER GEESMAN: The onsite --

8                   MR. FREEHLING: -- one PV system  
9 attached to one meter. And that does not allow  
10 for the coordination so easily between different  
11 pieces. And there are many ways in which the  
12 pieces of the puzzle can be put together.

13                   One of them, for example, could be to  
14 implement community solar. And this is something  
15 that has been done successfully in other places.

16                   It, one, creates greater affordability.  
17 Someone can buy a share in a community solar  
18 system. It also allows for a larger scale PV  
19 system to be built in a community and integrated.  
20 And if one PV system has to be tied on one roof,  
21 that creates a barrier to that kind of  
22 coordination.

23                   PRESIDING MEMBER GEESMAN: Okay.

24                   MR. FREEHLING: So there are many  
25 pathways of coordination. And you have to be

1 careful that you're not cutting off this one over  
2 here and this one over here.

3 There's so many places in the point  
4 where it does that if you just look at one and  
5 say, well, we can coordinate a building's air  
6 conditioning load with its PV system. That could  
7 be done, but that's just one piece. There are 20  
8 different pieces that could potentially be  
9 assembled.

10 For example, another way to firm up  
11 capacity would be to coordinate with a  
12 cogeneration combined heat and power unit that's  
13 maybe a block away on the same distribution  
14 system.

15 Another way that has been proposed that  
16 I discussed with the woman yesterday who spoke  
17 near the end from EPRI, was devised by them with  
18 Southern California Edison, was to have capacity  
19 contracts actually with customers. So that if  
20 they had a PV system they would agree that they  
21 were going to remove a certain amount of load  
22 during certain hours of the year when it was  
23 critical.

24 So there are a lot of tools that could  
25 be potentially used. And what I'm suggesting is

1       that the barriers, one by one, to these not only  
2       be lifted, but that perhaps the incentive  
3       structure, itself, that is created, either through  
4       rebates, through SEP payments, and so forth  
5       could -- or rewards for, or punishments for  
6       failure to meet the renewable portfolio standard,  
7       these tools that are available to state regulatory  
8       bodies could be put in place to reinforce the  
9       structure of what exists on the demand under the  
10      equation.

11               So, and this bring me to the next  
12      subject.

13               PRESIDING MEMBER GEESMAN:   Let me say  
14      something --

15               MR. FREEHLING:   I'm sorry, go --

16               PRESIDING MEMBER GEESMAN:   -- with  
17      regard to that that you and your fellow community  
18      choice aggregators may want to ruminate on.

19               Those models or efforts on the part of  
20      the state are probably most effectively created  
21      not in the abstract, but in response to a specific  
22      application or proposal.

23               And, you know, a lot of our problems do  
24      devolve into a chicken-and-egg metaphor, but I  
25      think that particularly with the level of

1        experimentation and innovation going on at the  
2        local level now, perhaps the best way to put some  
3        flesh to these skeletal concepts would be to have  
4        some proposals made. And hopefully we can design  
5        a system flexible enough in terms of incentives,  
6        that can accommodate a full range of proposals.

7                MR. FREEHLING: This, with both  
8        incentives and in terms of the rules, regarding  
9        allowing, for example, more flexibility with the  
10       onsite metering requirements. I was very pleased  
11       to see this actually placed in the report this  
12       year. The staff actually did bring this forward  
13       about how important it is to remove this onsite  
14       restriction.

15               And I feel that that should be  
16       underlined and read, put in red and brought to the  
17       front, as a major policy issue, not just only for  
18       its own sake, but for looking at how new laws that  
19       are put into place can facilitate this kind of  
20       coordination, so at least that's not a barrier.

21               There are certainly technical issues  
22       which need to be addressed. But they're not going  
23       to be addressed if there are major legal and  
24       regulatory impediments.

25               One of the other elements --

1                   PRESIDING MEMBER GEESMAN: Commissioner  
2 Desmond.

3                   CHAIRPERSON DESMOND: Just as sort of  
4 again, simplify this down into something. What  
5 you want to make clear is that distributed  
6 generation systems behind the customer's meter  
7 ought to have separate metering which would enable  
8 the flexible options you've described.

9                   MR. FREEHLING: To the extent that it's  
10 economically and rationally feasible. And it may  
11 turn out that large commercial customers are the  
12 best ones to do that at. And as rebates decrease  
13 and tax benefits for commercial entities increase,  
14 radically, which they are in the next couple of  
15 years, the shift in megawattage demand may turn  
16 more and more towards the commercial entities  
17 anyway. And in some districts they're paying the  
18 highest rates anyway, particularly the small  
19 commercial customers.

20                   The economics of placing a smart meter  
21 and also implementing demand controls may be much  
22 better for those than for, say, a small  
23 residential application. And so it may be wise to  
24 look at what parts of the system is it best to  
25 implement these things.



1           That's where it's -- you know, one can  
2     take a systems approach and look where is it  
3     rational to put these into effect. And not simply  
4     say across the board it's always going to be  
5     correct.

6           This is actually another issue we had  
7     with the million, so I don't want to bash the  
8     million solar roofs bill, but the emphasis on  
9     residential solar is a problem. Because first of  
10    all, the demand is shifting more and more towards  
11    commercial solar. And there are tremendous  
12    benefits that can be juiced out of commercial  
13    solar that are a little more difficult to juice  
14    out of a residential system.

15          Another issue I wanted to raise was  
16    regarding the renewable portfolio standard and  
17    what counts towards it. In some states  
18    distributed photovoltaics actually count towards  
19    the utilities' renewable portfolio standard.

20          One of the problems that utilities have  
21    with distributed energy is that they consider it  
22    to be a cost burden that's placed on them. By  
23    having it included in some sort of benefit towards  
24    the utilities and renewable portfolio standards,  
25    just one of those tools that could represent a

1 benefit to the utility or to the community choice  
2 aggregators, as the case may be. Counting  
3 distributed resources would help push that over  
4 the limit, particularly if the RPS is backed up by  
5 the penalty of a certain number of cents per  
6 kilowatt hour for not being enforced, or for not  
7 being carried out.

8 That resource, then, would have a  
9 motivation, an economic benefit to the utility.  
10 They would say, rather than, well, that's costing  
11 us a couple cents a kilowatt hour that we're not  
12 recouping in costs for the transmission system,  
13 for example. Or that we're not recouping on other  
14 things.

15 If we're selling electricity onsite at  
16 the cost of electricity, at the full retail value,  
17 then that could be a problem for a utility. It  
18 could be a problem for a community choice  
19 aggregator, as well, except that the community  
20 choice aggregator is an aggregation of customers.

21 So there's an integration of interest that's  
22 a little different than the utility system.

23 Nevertheless, if we're going to have, in  
24 a community choice aggregation, a variety of  
25 ownership options for, say, photovoltaics or other

1 distributed energy, one of those ownership options  
2 might be that the customer owns that personally.  
3 Is that going to count towards the RPS.

4 Well, if it's not, then maybe the  
5 community choice aggregator doesn't have any  
6 interest in facilitating the ownership by a  
7 private entity, just like the utility is put in  
8 the same boat. That there's a disincentive for  
9 facilitating that interconnection facilitating  
10 that policy.

11 So changing the RPS rules as they are is  
12 not only, for example, in New Mexico do they count  
13 photovoltaics as qualifying for the RPS, but they  
14 are considering it as being a multiple value. So  
15 that a megawatt hour of photovoltaic actually  
16 counts threefold, because it's considered to have  
17 an extra value at the peak hours.

18 So, an RPS consideration there would be  
19 an integration of policies between different  
20 segments and pieces. And that, to me, is perhaps  
21 the most important sort of over-arching point that  
22 I guess I have to make of all.

23 Is the lesson with regard to the million  
24 solar roofs bill is that it is carrying forward a  
25 policy that was created -- a number of policies

1       that were created when the Energy Commission first  
2       installed the program. Which was prior to the  
3       California energy crisis, prior to the renewable  
4       portfolio standard, prior to some of the modern  
5       payment systems that are going on and so forth.

6               And what we would like to see is an  
7       integration of these elements, putting them  
8       together so that one piece supports the next and  
9       is not compartmentalized and segmented in policy.

10              And the renewable portfolio standard is one  
11      way to do that.

12              Another portion -- and then I'll try and  
13      wrap up quickly. I don't want to overdo my  
14      welcome here -- is the consideration of energy  
15      efficiency and conservation. And there's a major  
16      effort in San Francisco, we would like to see a  
17      large amount of energy conserved and saved through  
18      energy efficiency program.

19              And this is an example of another  
20      potentiality for coordination between other  
21      policies. For example, is an energy efficiency  
22      measure to be counted towards itself, the  
23      renewable portfolio standard.

24              And while at first glance you might say,  
25      well, that's just, you know, out of the question,

1 we're not going to do that. Of course, some of  
2 the methods of generation, themselves, are energy  
3 efficiency.

4 So, combined heat and power, for  
5 example, is saving a resource of fuel that by  
6 raising the efficiency, average efficiency of the  
7 system maybe is 30, 35 percent, can be raising the  
8 usage of the natural gas to 60 to 90 percent. So  
9 here we have a generation facility that's actually  
10 doing energy efficiency.

11 On the other hand you can have an energy  
12 efficiency measure which is actually doing the  
13 equivalent of generation.

14 So that, for example, if a megawatt hour  
15 or a gigawatt hour, depending on what scale you  
16 want to think of it, is saved, that's a gigawatt  
17 hour of electricity that does not have to be  
18 procured.

19 Given that you have a 20 percent RPS,  
20 one could say, in the abstract, the 20 percent of  
21 that would have had to have been procured as part  
22 of the renewable standard.

23 So, actually at a certain level, without  
24 making it explicit policy, there's an implicit  
25 coordination between the energy efficiency

1       measure, which is worth 20 percent of its value  
2       one could say in this general way, towards the  
3       renewable portfolio standard.

4               Are you following --

5               PRESIDING MEMBER GEESMAN:   Yeah, the  
6       State of Nevada --

7               MR. FREEHLING:   -- my point at all?

8               PRESIDING MEMBER GEESMAN:   -- has  
9       adopted that.  We're familiar with the energy  
10      efficiency angle on RPS.

11              MR. FREEHLING:   Right, right.  So, one  
12      of the things that would facilitate then this,  
13      again from the utility standpoint, as well as from  
14      a community choice aggregator standpoint, would be  
15      to implement this kind of a concept.

16              So, that was the main of what I had to  
17      say.  I hope that's --

18              PRESIDING MEMBER GEESMAN:   Thank you  
19      very much.

20              MR. FREEHLING:   Thank you.  All right.

21              PRESIDING MEMBER GEESMAN:   And thank you  
22      again for deferring your remarks to today.

23              MR. FREEHLING:   I appreciate it.

24              ASSOCIATE MEMBER BOYD:   I want to thank  
25      you for your testimony.  I found it very

1       intriguing. It does demand a degree of  
2       sophistication that it's hard for the collective  
3       us to deal with sometimes. But it is very  
4       interesting. And the collective part of that is a  
5       little scary sometimes.

6               But, in any event, you gave us a lot of  
7       ideas, thank you.

8               MR. FREEHLING: Thank you. I appreciate  
9       it.

10              PRESIDING MEMBER GEESMAN: Next up from  
11       yesterday is Barbara George, Women's Energy  
12       Matters.

13              MS. GEORGE: Good morning,  
14       Commissioners. My name is Barbara George; I'm  
15       with Women's Energy Matters. And I have some  
16       comments initially I'd like to make on the subject  
17       of the electricity procurement, which was today's  
18       topic. And then I want to take up yesterday's  
19       comment on energy efficiency.

20              I felt that the report did a really good  
21       job in identifying some of the recent achievements  
22       and the continued barriers and challenges to a  
23       more functional power system, which is responsive  
24       to ratepayers' needs for efficiency,  
25       affordability, reliability, security,

1 sustainability and less pollution.

2 I did feel that the report could be even  
3 better with some minor changes in the way it's put  
4 together, because the chapters and subchapters are  
5 a little scattered around right now. And I  
6 wondered if you would consider putting them into  
7 more of the loading order, you'd have two chapters  
8 on overall policy, electricity needs and  
9 procurement, and the water and energy strategies.

10 And then start with conservation and  
11 efficiency and demand response; move on through  
12 renewables, distributed generation, combined heat  
13 and power. And then do the natural gas, coal and  
14 nuclear together. It seems like that would -- it  
15 was a little odd to see nuclear and coal in the  
16 energy efficiency chapter. And then end up with  
17 transmission and the border energy concerns.

18 Also the climate change chapter, it  
19 seems to me it could be a good closing chapter.  
20 It also could be an introductory chapter, since  
21 that has so much to do with what's driving a lot  
22 of the changes right now.

23 I had specific comments which I'll put  
24 into my written comments. The very beginning of  
25 the electricity procurement chapter, I just want



1 to pick this one piece out. Currently it says,  
2 following a period of flat growth to slow growth  
3 on the heels of the 2000/2001 crisis, California's  
4 demand is now growing fueled by population growth  
5 and a rebounding economy.

6 I would tweak that a little bit. The  
7 public's extraordinary conservation response  
8 during the energy crisis created a period of flat  
9 to slow growth on the heels of the 2000/2001  
10 crisis. Following the energy crisis and the  
11 September 11th attacks, Californians got the  
12 message from state and national government that  
13 conservation was not cool. They were encouraged  
14 to increase consumption of all kinds.

15 California's demand is now growing  
16 fueled by higher temperatures caused by climate  
17 change. The elimination of Flex-Your-Power  
18 conservation messages -- I'd like to remind you  
19 that Flex-Your-Power, the state program, was taken  
20 over by Southern California Edison. The CPUC  
21 granted them control over that program. And the  
22 CPUC does not allow conservation messages. So  
23 they cut the, you know, I feel, most important  
24 part of that program out. And I think that had a  
25 large effect on the increased demand.

1           Also, the report discusses that there  
2       was less than expected population growth. And so  
3       I'm not sure how much increased demand there was  
4       there. also, not clear on how the economic issues  
5       impact, because my understanding is that the  
6       average Californian has less money to spend today,  
7       partly because of high energy prices, than they  
8       did in the 1990s before the dot.com crash.

9           My comments on energy efficiency, I came  
10      before you a few months ago, discussed the  
11      original energy efficiency report. And I do note  
12      that it's kind of a thin chapter if we're talking  
13      about energy efficiency being the most -- the top  
14      of the loading order. I'd like to see it get a  
15      little bit more attention.

16           And also I think that the Energy  
17      Commission has an unusual position in relation to  
18      the CPUC on energy efficiency issues because the  
19      staff is actually directly coordinating on the  
20      programs at the CPUC and on the new rules for  
21      measurement.

22           There's a really important statement  
23      early in the chapter that says the IOU planners  
24      need to be able to confidently account for energy  
25      efficiency savings in their procurement planning

1 processes and decisions. That is the key sentence  
2 that I would just like to see carried through the  
3 chapter.

4 There's a good discussion of the changes  
5 in the measurement system; there's a new  
6 measurement system that's being developed by  
7 Energy Commission and CPU Staff. However, I  
8 believe it ought to mention the problems with the  
9 old system had to do with the fact that the  
10 utilities were in charge of all aspects of  
11 measurement for their own programs, which resulted  
12 in a lack of credibility for that measurement.

13 The report endorses real savings; but  
14 then it says that the utilities are meeting their  
15 targets. Well, currently they're only meeting  
16 their targets if you allow them to measure the  
17 programs the way they have been measuring them,  
18 which includes overstating compact fluorescents by  
19 one study says up to 400 percent.

20 And there are other overstatements in  
21 the current projections of energy savings for the  
22 current programs. If those were corrected, the  
23 current utility programs would not meet their  
24 targets.

25 In 2006 to 2008 similarly the programs

1 are not able to meet the targets that were set by  
2 the CPUC. There has been an interesting group of  
3 changes made by the Commission since January in  
4 how they are counting energy savings in the next  
5 three years.

6 One of them recently allowed the  
7 utilities to claim credit for codes and standards  
8 work, which the last I heard was primarily done by  
9 your staff. So, I don't see why the Energy  
10 Commission should be considered an extension of  
11 the utilities to help them meet their targets.

12 And this is not just a theoretical  
13 question of who gets the credit, it also has to do  
14 with a large amount of money. Because the PUC has  
15 announced the intention of allowing the utilities  
16 to collect incentives, shareholders incentives for  
17 these programs in order to bribe the utilities to  
18 do better energy efficiency.

19 And so if they do not meet their targets  
20 they would only get incentives if they were  
21 allowed, as they are being allowed, to claim the  
22 codes and standards work.

23 Now, if we take a look at what they have  
24 been getting for incentives, there is a decision  
25 on the table pending at the CPUC right now that

1 settles all the claims for energy efficiency  
2 incentives from 1994 to 2001. They would be  
3 receiving approximately a half a billion dollars  
4 on about \$1.5 billion worth of programs. Now  
5 that's a pretty nice return on investment, I would  
6 think, especially since it's not utility money,  
7 it's ratepayer money.

8 No such incentives are needed, of  
9 course, for nonutility program energy efficiency  
10 providers. They have just been doing programs for  
11 four years without incentives, and would really  
12 like to continue. However, as the report says,  
13 the CPUC has required a competitively bid system  
14 for 20 percent of the portfolio. However, the  
15 report does not mention that that competition is  
16 being run by the utilities. So I would say that  
17 gives a new meaning to the word competitive  
18 bidding, having a competitor in charge of the  
19 bidding on the program.

20 Women's Energy Matters at your last  
21 hearing proposed a solution for the utility bias  
22 in these selection of third-party programs, which  
23 would be a standard offer program. They currently  
24 do a standard offer for large commercial programs.  
25 We would like to see them do a standard offer also

1       for residential programs. This would not be  
2       difficult to implement.

3               There is a very successful system in  
4       Texas that is providing 40 percent more energy  
5       efficiency per dollar with a standard offer  
6       system. Much simpler on the administrative end.  
7       Want to point out that administrative costs by the  
8       utilities on energy efficiency are running as high  
9       as 50 percent still, even though the CPUC tries to  
10      bring them down.

11             Going back to the original statement,  
12      IOU planners need to be able to confidently plan  
13      for energy efficiency savings in their procurement  
14      planning processes and decisions. This is the  
15      area that I think needs the most work, because  
16      right now the PUC is claiming that everyone gets  
17      benefits from energy efficiency programs because  
18      they reduce the need for as much supply side  
19      resources. But that's actually not yet happening.  
20      And there are a couple of reasons for that.

21             One is, as we know, that the peak is  
22      what drives the additional need for resources, the  
23      supply side resources. And the utilities have  
24      failed to adequately address that peak in their  
25      programs. There's a big fight about it now in the

1 CPUC proceedings, about how much or how little  
2 peak savings are going to be done. This is  
3 mentioned in the report, which I appreciate.

4 PRESIDING MEMBER GEESMAN: I take it you  
5 disagree with some of the statements made  
6 yesterday as to that problem having been resolved  
7 in the last two weeks?

8 MS. GEORGE: Well, the question of  
9 whether it's been resolved in the last two weeks  
10 is something I can't really speak to. I do have  
11 one quote from a ruling on the 4th, which I'll  
12 read you: Joint Staff has not yet developed the  
13 resource planning component of the integrated EMNV  
14 cycle, that's measurement cycle, to feed the  
15 measurement results into the Commission's  
16 procurement planning process and the California  
17 Energy Commission's Integrated Energy Policy  
18 Report.

19 One of the problems is that they don't  
20 have a very good way of measuring peak load.  
21 There's complications in that area, and it's been  
22 a very vague kind of a measurement that's been  
23 done in the past.

24 So obviously the metering would make a  
25 difference. Some of the types of things that the

1 last speaker was mentioning could help a great  
2 deal.

3 But we're just at the very beginning of  
4 paying attention to the peak load, even though  
5 there's obvious things that you could do. Which  
6 is certainly number one, as TURN says, is to  
7 increase your space cooling, efficient space  
8 cooling rebates, which the utilities have not been  
9 doing.

10 The other thing that I would want to  
11 point out is essential if you're going to be  
12 looking at substituting supply side resources,  
13 energy efficiency for supply side resources is  
14 you've got to look at the location of the energy  
15 efficiency.

16 Now, energy efficiency, each measure is  
17 like a mini power plant or an anti power plant.  
18 it's producing megawatts that cannot be  
19 transmitted or stored. They are located where  
20 they're located and that's it.

21 Now, that actually has a tremendous  
22 advantage. If you're looking at a distribution  
23 system or a transmission system from a resource  
24 planning point of view, when the IOU looks at it,  
25 or when the utility resource people are looking at



1       their need for increased resources, they look at  
2       it as a, you know, on the basis of substation line  
3       congestion, you know, between substations.

4               So, that makes it very clear where  
5       there's a need for energy efficiency or  
6       distributed generation. Right there. It's just  
7       as clear as day. All the models will show you  
8       that.

9               And you could do a tremendous amount  
10       with energy efficiency if you targeted it at a  
11       particular area. Currently there is no  
12       information whatsoever about where the work takes  
13       place.

14              Now, that's not because the utilities  
15       don't have it. Of course, they have it. They  
16       know where they sent their people. And that  
17       information is available to them. They do not  
18       want to give that information out. And I question  
19       why is that.

20              Partly I believe it's that the utilities  
21       have used energy efficiency to reward some of  
22       their best customers. And it's also certainly  
23       possible that they are looking to get the most  
24       from both sides of the system.

25              There's an argument that, you know, the

1 reason for incentives, as Mr. Cavanaugh said  
2 yesterday, that, you know, utilities have a reason  
3 to do energy efficiency now. Well, they do, but  
4 they also have a reason not to do energy  
5 efficiency, and the fact is that with the system  
6 set up as it is today they can do both. They can  
7 put together massive energy efficiency budgets and  
8 then do the work in areas where it doesn't matter,  
9 where it does not, in fact, reduce the load in the  
10 way that would allow us to reduce the cost of  
11 supply side resources. So, you know, they get it  
12 coming or going, you know, in that manner.

13 And that's what I -- I would like to see  
14 the Energy Commission looking at those issues,  
15 because as my consultant said, you can do it all  
16 with energy efficiency. There is an immense  
17 amount of potential for energy efficiency, which  
18 has been, I believe, under-counted in past years  
19 in the utility-sponsored studies.

20 But the climate change scientists are  
21 telling us we need 70 percent reductions in our  
22 emissions. We can get that if we are using energy  
23 efficiency in the way that it needs to be used.

24 So I encourage the Energy Commission to  
25 push the envelope with the CPUC on that issue

1       particularly.

2                   Thanks.

3                   PRESIDING MEMBER GEESMAN:  Thank you  
4       very much.  And, again, thank you for deferring  
5       your remarks to today.

6                   MS. GEORGE:  You're welcome.

7                   PRESIDING MEMBER GEESMAN:  Okay, Kevin,  
8       why don't we then go to the staff presentation.

9                   DR. KENNEDY:  Okay, thank you,  
10      Commissioner Geesman.

11                   My name is Kevin Kennedy and I'm the  
12      Staff Program Manager for the 2005 Integrated  
13      Energy Policy Report proceeding.

14                   I want to welcome everyone here and  
15      everyone listening on the phone or the webcast.  I  
16      do understand that we had a small problem getting  
17      the webcast up and running first thing this  
18      morning.  If anyone's on the phone because of that  
19      I do believe we have the webcast working now.

20                   The agenda for today, and actually as I  
21      look at what I have on the screen I realize I  
22      missed a piece of it.  First, I'm going to give a  
23      quick overview of the two draft Energy Report  
24      chapters we're considering today.  Chapter 3, the  
25      electricity needs and procurement policies.  We'll

1       also touch on chapter 5, transmission challenges.  
2       I'm suspecting that there will be relatively  
3       little comment on that since we did have a  
4       separate hearing on the strategic transmission  
5       investment plan two weeks ago. But we're open to  
6       comments on the transmission chapter or its  
7       interaction with the strategic plan.

8               What I failed to put on this but is on  
9       the written agenda is that Lynn Marshall will be  
10      doing a short overview, as well, of the revised  
11      staff demand forecast.

12             As I believe most of you are aware,  
13      following Committee direction after hearings this  
14      summer on the initial staff electricity demand  
15      forecast, staff prepared a revised version. That  
16      was published late last month, and so we'll have a  
17      quick overview of the results of the revised staff  
18      forecast.

19             Then we'll open the floor to comments on  
20      these topics. As we've pointed out at various  
21      points, written comments are due on October 14th.

22             I would like to point out that we are  
23      having a transcript made of all of these hearings,  
24      and point out two things. One, it's extremely  
25      useful for the court reporter if you come up to

1 speak if you have a business card, to leave him a  
2 business card so he can get down your name  
3 correctly and all of that.

4 We're also working to get the  
5 transcripts expedited. I'm not sure how far in  
6 advance of October 14th we'll have the transcripts  
7 up, but we're trying to get them posted to the web  
8 at least a day, maybe two, ahead of that. So if  
9 you want to take a look at the transcripts as  
10 you're finalizing your comments, I'm hoping that  
11 we'll be able to pull that off.

12 This is one of a continuing series of  
13 hearings on the Committee draft documents. We're  
14 sort of doing a double-header today, with the  
15 electricity needs and procurement policies and  
16 transmission this morning. Starting at 1:00, or  
17 perhaps later, depending on how the morning goes,  
18 we'll be taking on natural gas.

19 The schedule from here, one thing that's  
20 not included in this listing of the schedule is  
21 that we are still working on the Committee draft  
22 of the transmittal report to the Public Utilities  
23 Commission. We're hoping to publish that sometime  
24 in about a week or so, probably either at the very  
25 end of next week, or early the following week.

1           We're also in the process of scheduling  
2           a hearing specifically for the transmittal report  
3           that will be at the end of October or the first  
4           week of November. So, keep your eye out for both  
5           that document and that hearing.

6           Then in early November we will be  
7           publishing the final Committee versions of the  
8           Energy Report and the transmission strategic plan  
9           and the transmittal report following the hearing  
10          that we hold on the draft.

11          We're looking to adopt all three of the  
12          reports at the November 16th business meeting.  
13          And then package it all up and send it off to the  
14          Governor and Legislature in early December.

15          MR. KELLY: Real quickly, Kevin, could  
16          you explain how the transmittal report is  
17          different from the Energy Report?

18          PRESIDING MEMBER GEESMAN: I wanted to  
19          jump in there, actually, when he said that and  
20          offer my cut at an editorial comment.

21          The transmittal report is not expected  
22          or intended to be a policy document. Instead it  
23          is a documentation of the record that we've relied  
24          upon in developing the policy statements in the  
25          Energy Report. It will be a quantitatively

1       oriented report. It will have quite a bit of  
2       detail on demand forecasts and projected supply  
3       requirements.

4               And I know that there are parties that  
5       will want to scrub through that fairly carefully  
6       to make certain that it is consistent with the  
7       policy recommendations in the Energy Report. And  
8       to address it as if it were a policy document.

9               So, to some extent, it's a second bite  
10      at the apple for the various participants in our  
11      process. We will hold a separate public hearing  
12      on it before it comes to the full Commission on  
13      November 16th for adoption, along with the Energy  
14      Report and the strategic transmission investment  
15      plan.

16              MR. KELLY: So it sounds like it's kind  
17      of the technical appendices?

18              PRESIDING MEMBER GEESMAN: I think our  
19      lawyer is still struggling with how to properly  
20      describe it. The Public Utilities Commission has  
21      requested, in the two ACRs in their procurement  
22      proceeding, that we provide them with a  
23      transmittal report.

24              And I think as far as the lawyer has  
25      been willing to go is to recite provisions of

1       those two ACRs.

2               MR. KELLY:  Thank you.

3               DR. KENNEDY:  Okay, thank you for --  
4       that's actually a very useful point of  
5       clarification.

6               In terms of the Energy Report proceeding  
7       overall, the purpose of the Integrated Energy  
8       Policy Report is to help develop a statewide  
9       integrated energy policy.  It's also intended to  
10      provide a common information base for agencies in  
11      the state that are making decisions related to  
12      energy policy.  And it's one that we're expected  
13      to adopt every two years, with an update in the  
14      off years.

15              In terms of the proceeding this year  
16      we've been working closely with a wide variety of  
17      federal, state and local agencies.  We've held  
18      many hearings and workshops.  And there's a lot of  
19      material in the docket in terms of staff and  
20      consultant reports, comments, presentations.

21              This proceeding would not have been  
22      possible without a lot of hard work on the part of  
23      staff and consultants here at the Energy  
24      Commission, and also the very active participation  
25      and cooperation of folks from other agencies, and



1 many stakeholders. So I want to thank everyone  
2 who's been involved in helping create what is a  
3 very rich record for the Energy Report proceeding  
4 this year.

5 In terms of the chapters that we're  
6 talking about specifically today, the electricity  
7 needs and procurement policies. In terms of  
8 demand we've been looking at statewide annual  
9 electricity consumption; it has increased an  
10 average of 2 percent per year over the last two  
11 years. Consumption is forecast to continue  
12 growing through 2016.

13 Peak demand is also increasing. We'll  
14 be hearing more detail about all of this from Lynn  
15 Marshall once I get off the stage.

16 In terms of supply there have been  
17 22,000 megawatts of new power plants approved  
18 since 1998. Seven thousand megawatts of those are  
19 stalled because of lack of power purchase  
20 agreements so far.

21 The number of annual new power plant  
22 applications that the Energy Commission has  
23 received has drastically decreased in recent  
24 years. We received a high of 42 in 2001, and we  
25 only have received so far five in 2005.

1                   In terms of resource adequacy,  
2           California could face low reserve margins and  
3           shortages in coming years, particularly in  
4           southern California. But effective in June of  
5           2006 the IOUs must meet a year-round planning  
6           reserve margin of 15 to 17 percent.

7                   There's currently no mechanism in place  
8           to insure the resource adequacy for the publicly  
9           owned utilities beyond their own internal  
10          mechanisms for assuring their own adequacy.

11                  One of the big issues that has played  
12          out over the course of the last year in this  
13          proceeding has been the question of  
14          confidentiality. The Energy Commission is  
15          concerned the confidentiality of IOU data  
16          precludes open public resource planning process.  
17          And confidentiality of the renewable portfolio  
18          standard procurement data hampers the ability to  
19          insure that the public funds for above-market RPS  
20          costs are appropriately spent.

21                  Some of the key recommendations in this  
22          area are to require utility long-term procurement  
23          to cover the annual net short, plus an amount to  
24          account for the possible retirement and  
25          replacement by 2012 of an identified list of aging

1 power plants.

2 Also recommending that the Legislature  
3 should adopt resource adequacy requirements for  
4 all load-serving entities in the state. The  
5 Energy Commission plans to participate in the PUC  
6 rulemaking process to revise their regulations  
7 governing disclosure of records.

8 I would also point out that we are going  
9 to be fairly shortly opening up a rulemaking here  
10 at the Energy Commission on data collection and  
11 confidentiality, looking towards the 2007 IEPR  
12 cycle.

13 We also recommend that the CPUC should  
14 not rely on confidential procurement review groups  
15 as part of their procurement approval process.

16 In terms of transmission challenges,  
17 congestion-related and reliability services cost  
18 Californians about \$1 billion last year.  
19 California lacks currently an integrated  
20 transmission planning and permitting process that  
21 would include long-term corridor planning.  
22 California needs major transmission infrastructure  
23 to interconnect with remote renewable resources.

24 Some of the key recommendations from the  
25 report include establishing a comprehensive

1 statewide transmission planning process.

2 Transferring siting functions for transmission  
3 lines from the Public Utilities Commission to the  
4 Energy Commission. Giving the Energy Commission  
5 authority to establish a corridor identification  
6 process, and to designate corridors.

7 To identify cost effective projects that  
8 increase the ability to transfer electricity  
9 between the ISO-controlled areas and other  
10 California-controlled areas. And also to take  
11 advantage of the complimentary utility systems in  
12 California and the Pacific Northwest.

13 The report includes recommendations in  
14 favor of a number of specific transmission  
15 projects, including the Palo Verde-Devers 2  
16 project, SDG&E's Sunrise Powerlink project, the  
17 Tehachapi transmission projects, and the Imperial  
18 Valley transmission upgrade project.

19 I do want to mention, I think I skipped  
20 over this at the beginning, that for folks  
21 listening in on the webcast, if you decide that  
22 you want to make a comment, we do have a call-in  
23 number. It's 888-790-1711; the passcode is  
24 hearing; and the call leader is Kevin Kennedy.

25 If you're seeing the slide presentations

1 on the webcast, I'll be putting a version of this  
2 slide up when we finish the staff presentation so  
3 that if you decide later you want to call in,  
4 you'll have the number available.

5 And with that I'd like to turn it over  
6 to Lynn Marshall.

7 MS. MARSHALL: Okay, as Kevin said  
8 earlier, back in June we presented our draft staff  
9 forecast. And at that workshop there was a lot of  
10 discussion about the uncertainties that drove the  
11 differences between the staff forecast and the  
12 forecast submitted to us by IOUs and other LSEs in  
13 the state.

14 So, in response to that, the Committee  
15 directed staff to develop a range of forecasts  
16 that encompassed the different perspectives put  
17 forth on those issues.

18 Assuming when and if the forecasts we're  
19 presenting today are adopted by the Commission,  
20 there's a couple of important applications at the  
21 PUC parties should be aware of. One is in the  
22 transmittal report, which we were discussing  
23 earlier. The forecast for the IOU service areas  
24 and bundled loads that we've developed and we'll  
25 show later will be used specifically in that

1 transmittal report for our analysis of resource  
2 needs in the IOU service areas.

3 The second application is in the PUC's  
4 resource adequacy process. The draft decision on  
5 that process, recently put out by the PUC, put  
6 forth the position that it is appropriate to use  
7 the state's forecast as a reference case. So if  
8 that position is upheld in their final decision,  
9 it is likely that the adopted CEC forecast would  
10 be used to adjust the forecast used by LSEs for  
11 resource adequacy compliance, in the event that  
12 the sum of the forecasts submitted to us deviate  
13 by more than 1 percent from our forecast. So, in  
14 effect, we'd be using the CEC forecast as a  
15 control total.

16 How do we develop these forecast ranges.  
17 The first major change since June in all of the  
18 new forecasts we're presenting today is we  
19 incorporated 2004 consumption data; our June  
20 forecast was calibrated to the 2004 peak, but only  
21 used 2003 recorded consumption data.

22 In constructing the cases I'll talk  
23 about the changes to the major sectors. In the  
24 other sectors the only changes are use of new  
25 consumption data.

1           In the industrial sector the discussion  
2       at the workshop, many parties felt that our  
3       forecast seemed unreasonably high in light of the  
4       current market conditions in California. And so  
5       we went back and reevaluated some of our modeling  
6       assumptions. With this forecast we've started  
7       using the county-level value-added projections,  
8       both historical and forecast, by economy.com.

9           So the use of that data now allows us to  
10      go back at a planning area level and look at each  
11      NEGs group at the historical relationship between  
12      energy use and the value-added driver that we're  
13      using. So we've now revised our energy efficiency  
14      trends to be more consistent with the trends that  
15      we've seen historical data.

16           In the mining sector we did that same  
17      analysis and actually what we found is in about  
18      the last five years there appears to be increasing  
19      energy intensity in that sector that might be  
20      driven by higher resource product prices. So  
21      we've actually increased the forecast for that  
22      sector.

23           In commercial models, commercial  
24      forecasts, the discussion centered around future  
25      trends in energy use per square foot. And in the

1 staff forecast we projected decreasing electricity  
2 use per square foot. That's in contrast to recent  
3 history, but that reflects the effects of building  
4 and appliance standards, of slowing in the growth  
5 of office equipment. That businesses aren't  
6 adding computers at the same rate that they were  
7 in the '80s and '90s. And also that as some of  
8 that old equipment is replaced, it's replaced with  
9 more efficient equipment.

10 By contrast, some of the IOUs' forecasts  
11 had increasing use per square foot, basically  
12 extrapolating, assuming that the recent historical  
13 trend was going to continue. So to come up with a  
14 range of forecasts in the commercial sector, the  
15 Committee directed us to have a high case that had  
16 flat to increasing use per square foot. So we did  
17 that by removing some of the effects of lighting  
18 standards from the high case and by accelerating  
19 growth in our miscellaneous and office equipment  
20 end uses in the commercial model.

21 The basecase is essentially the same as  
22 the June forecast. And the low case we actually  
23 added in more savings from lighting standards.

24 To construct the residential ranges we  
25 varied assumptions about personal income and



1 persons per household. So in our basecase and in  
2 our June forecast we assumed decreasing persons  
3 per household at about half the rate of the trend  
4 seen in the last decade or so.

5 We were also incorporating in that a new  
6 somewhat higher personal income forecast from  
7 economy.com that they put out in June. We're also  
8 incorporating some new population projections that  
9 DOF has re-estimated, persons per household for  
10 2000 through 2004.

11 We're using those new data in the high  
12 case, but for the high case we assumed that  
13 persons per household stayed constant, so that  
14 means more households and a somewhat higher total  
15 residential energy use.

16 For the low case we used the same new  
17 demographic information, but we're using our old  
18 lower personal income.

19 So results overall. At a statewide  
20 level the revised basecase forecast is very  
21 similar to what we had in June. We have somewhat  
22 higher residential forecasts, but lower  
23 industrial. The low case is only about a half a  
24 percent lower than our basecase, but our high  
25 case, with the higher growth in industrial and

1 higher commercial demand, ends up being about 3  
2 percent higher by the end of the forecast period.

3 So in the high case we have increasing  
4 use per capita as opposed to the basecase  
5 forecast, which is just slightly declining.

6 On the peak side we end up in our high  
7 case with about 2000 more megawatts by the end of  
8 the forecast period. And I'll go through some of  
9 the sector level results for each of the planning  
10 areas. And it shows peak demand per capita again  
11 increasing in the high case.

12 For the PG&E planning area we have a  
13 somewhat lower starting point because of low 2004  
14 consumption. But the high case ends up being  
15 about 4 percent higher by the end of the forecast.  
16 And there's the energy forecasts. You can see the  
17 revised basecase is lower than the lime-green line  
18 because of a lower starting point.

19 And similar, the differences in the peak  
20 forecast generally mirror differences in the  
21 energy forecast. And same per capita consumption  
22 trends are generally the same as we saw in the  
23 statewide level, increasing in the high case --  
24 increasing use per capita in the high case.

25 The residential sector, the high case is

1       only about a half percent higher than our  
2       basecase. As I said, we have constant persons per  
3       household in the high case, but that means -- and  
4       that means more households. But we also have more  
5       persons per household, and because we're using the  
6       same total income, our basecase personal income  
7       per household is actually higher in the basecase.  
8       So there's some offsetting effects there.

9               In the commercial sector we have a lower  
10      starting point. 2004 commercial consumption was  
11      about 3 percent lower than previously projected.  
12      But our high case, with the acceleration of office  
13      equipment and removal of the building standards,  
14      ends up being 10 percent higher by the end of the  
15      forecast period. And this shows the same results  
16      in terms of use per square foot, slightly  
17      increasing in the high case. And as you can see  
18      there, the historical trend, it has been  
19      increasing over the last decade or so. Staff-  
20      based case, we have decreasing use per square  
21      foot.

22              This is the revised industrial forecast;  
23      is now about 4 percent lower compared to June.  
24      And this shows the energy intensity trends that we  
25      revised downward from about use per value-added

1 decreasing at 1 percent, now down to about 1.6  
2 percent. Now, that's not as fast as we saw during  
3 the technology boom of the late '90s, but the  
4 recent data suggests that trend has leveled off.  
5 And so the new forecast results are more  
6 consistent with recent data and with the trend we  
7 saw up until about the mid '90s.

8 Now, this is showing the disaggregated  
9 forecast that I mentioned we would be using in the  
10 transmittal report. And to develop this what we  
11 did was take our planning area forecast; we have  
12 reported sales for each of the LSEs listed here.  
13 We applied the sector level growth rates to each  
14 individual LSE's sales to come up with an LSE  
15 sales forecast.

16 Then to develop a peak forecast we used  
17 our end-use load factors from the planning area.  
18 And then we reviewed the peak forecast that that  
19 initially produced, and compared that to  
20 historical peak loads and load factors for each of  
21 those entities. So for some of the entities that  
22 are more weather-sensitive, we adjusted their load  
23 factors down relative to our planning area  
24 forecast.

25 And then here are the results for

1 Edison. Again, our basecase is very close to  
2 June. The high case is about 3.5 percent higher  
3 than our basecase by the end of the forecast.  
4 There's the peak forecast, you can see a big shift  
5 up from the last historical year from 2004 to  
6 2006. And that reflects the fact that there have  
7 been below-average temperatures in Edison's since  
8 1998. So we're at about 1000 megawatt of weather  
9 adjustment to account for -- to be more consistent  
10 with one and two temperatures.

11 And this shows the higher per capita  
12 consumption driven in the high case by that higher  
13 commercial and industrial growth. Residential,  
14 again, same results as with the PG&E planning  
15 area. Only about .5 percent higher in the high  
16 case.

17 When we incorporated the new data from  
18 Department of Finance we do now have, continues to  
19 show increasing persons per household. So that's  
20 actually higher than what we had in June. And,  
21 again, the income per household is higher. So  
22 that somewhat offsets the effect of more total  
23 households in the high case.

24 Commercial sector, we have a lower  
25 starting point, around 3 or 4 percent lower in

1       2004. But, again, the high case increases to  
2       about 4 percent higher than the basecase. And  
3       shows the results in terms of use per square foot.  
4       Flat in the high case, and decreasing in our staff  
5       basecase.

6               Industrial sector we have much higher  
7       starting point there, 3 or 4 percent. But, again,  
8       we've reduced the growth rate. And here's the  
9       intensity trends, reduced it to -- decreasing it  
10      about 1.6 percent a year. And that is consistent  
11      with the historical trend from 1980 to 2004 of  
12      about 1.7 percent.

13             And this shows mining, which is largely  
14      TEOR electricity use. Both a higher starting  
15      point, and we now have a slight increase in the  
16      forecast which seems to be more consistent with  
17      the recent historical trend.

18             PRESIDING MEMBER GEESMAN: Might clarify  
19      that TEOR is thermally enhanced oil recovery.

20             MS. MARSHALL: Yes, thermally enhanced  
21      oil recovery. So, it looks like the higher prices  
22      for crude oil and natural gas are motivating them  
23      to pump a little harder. That's probably an area  
24      we ought to do more research on to find out what's  
25      really going on.

1           And again, same methodology to develop  
2     the LSE level forecast as I discussed in PG&E, so  
3     the difference in growth rates largely reflect  
4     differences in customer mix among the different  
5     LSEs.

6           And then finally, we'll go to San Diego.  
7     Higher, we have higher consumption in 2004. Our  
8     consumption forecast. The high case is about 3  
9     percent higher than the basecase. On the peak  
10    side, the difference is greater. We've got a  
11    greater increase than on our consumption forecast  
12    because we have made an adjustment to our San  
13    Diego peak forecast. In all the other areas the  
14    peak modeling assumptions are the same.

15          San Diego commented that the amount of  
16    residential load that we attributed to be weather-  
17    sensitive seemed inappropriately low. So we've  
18    now incorporated a new load shape for the  
19    residential sector, and we've also done a weather  
20    adjustment to better account for below-average  
21    temperatures in 2004. So our new peak forecast is  
22    about 200 megawatts, or 2 percent higher -- or 100  
23    megawatts higher.

24          And same differences in the per capita  
25    consumption. And here is the new load factor for

1 San Diego. So you can see a good bit lower there.

2 Residential forecast, similar results as  
3 in the other planning areas. Only slight  
4 differences in the residential case. About 4  
5 percent higher commercial forecast in our high  
6 case compared to the base. And slightly  
7 increasing use per square foot versus staff's  
8 decrease. And, again, here's the revised  
9 industrial forecast, lower starting point and  
10 lower growth rate.

11 And, again, for the LSE level forecast  
12 for San Diego we simply took our service area  
13 forecast and we took the direct access sales and  
14 assumed it would grow at about half the rate of  
15 the sector forecast to assume that there's some  
16 growth with existing direct access customers, and  
17 perhaps some returning of customers with return  
18 rights.

19 And we did the same scenarios for all of  
20 the other planning areas in our forecast. Won't  
21 say too much about them. These are at the end of  
22 your handouts are the results for SMUD and LA.  
23 Both of them are actually a little higher because  
24 of the higher residential forecast, and because of  
25 a higher starting point reflected in the 2004



1 consumption data.

2 So I will stop there and any questions?

3 Okay.

4 PRESIDING MEMBER GEESMAN: Are we ready  
5 for blue cards, Kevin?

6 DR. KENNEDY: Yes, we are.

7 PRESIDING MEMBER GEESMAN: Okay. I  
8 think you are all familiar with the blue card  
9 rule. I'll take them in the order in which  
10 they've been given me.

11 Steven Kelly, Independent Energy  
12 Producers.

13 MR. KELLY: Thank you, Commissioners.  
14 Steven Kelly with the Independent Energy Producers  
15 Association. And I will be providing some written  
16 comments on the 14th, so I won't go into a lot of  
17 specificity here.

18 I would say that just for the most part,  
19 almost entirely agree with the Commission's Staff  
20 with the recommendations that are included in this  
21 report.

22 So, what I wanted to do was take a few  
23 minutes here to talk about something that I think  
24 is actually omitted from the report in its  
25 entirety. And I wish the report will raise it

1       when it's completed.

2                   And I want to put this in a little  
3       context, but it's kind of the 40,000 foot  
4       question, or vision that is kind of, in my view,  
5       affecting a lot of the facts that you've  
6       discovered in your report, and some of the  
7       recommendations.

8                   And to put this in context, when the  
9       Public Utilities Commission adopted their long-  
10      term procurement plan, from my perspective in the  
11      issue of electricity and procurement they really  
12      had two fundamental findings, one of which was  
13      there was going to be an open and transparent  
14      competitive market; and the second was that there  
15      was going to be this so-called hybrid market  
16      structure, which was somewhat undefined, but  
17      allowed the utilities to participate in that  
18      competitive environment under the auspices of some  
19      openness and transparency.

20                  Your report finds two fundamental facts.  
21      One is that there's a lack of investment in  
22      generation and transmission both. And two,  
23      there's a lack of transparency and openness in the  
24      procurement process in California. And I think  
25      they're related.

1           The key question in my mind is why is  
2           that occurring. And from a structural perspective  
3           your report goes into a lot of specifics and  
4           recommendations about how to fix some of this  
5           stuff. But I think there's a bigger issue that is  
6           at the 40,000 foot level kind of a structural  
7           question that needs to be raised by you in your  
8           report.

9           Why is it that there's a lack of  
10          investment in generation and transmission. And  
11          why is it there's a lack of transparency and  
12          openness in the competitive processes that are  
13          being implemented today.

14          One rationale that I've heard is that  
15          the lack of investment is a function of the  
16          uncertainty about load from the load-serving  
17          entities. And I've evaluated that and thought  
18          about that, but come to the conclusion that that  
19          argument is only applied in the context where  
20          there are IPP projects being bid into open  
21          competitive solicitations.

22          It has never arisen in the context of  
23          the IOU projects. All of those have gone forward  
24          unimpeded by that argument in applications outside  
25          of competitive procurement.

1           So I don't think that the question about  
2   what you're serving for load is really the  
3   underlying reason about why we're getting a lack  
4   of investment, particularly from the private  
5   sector, the non-IOU investment sector. I think  
6   it's a lack of opportunity.

7           The second rationale, and this is one  
8   that I actually adhere to, and I hope the  
9   Commission will look at, is that it's actually the  
10  nature of the hybrid market structure that has  
11  been adopted by the PUC that is an impediment.  
12  It's an impediment to actually achieving an open,  
13  transparent, competitive environment.

14          Rather than using the open, transparent,  
15  competitive market as a means to make the hybrid  
16  market structure work, I think the alternative is  
17  occurring that the hybrid structure is an  
18  impediment to achieving openness and transparency.

19          And I think this is the big elephant in  
20  the back of the room that nobody's dealing with,  
21  and the Commission's report, the IEPR, doesn't  
22  really, I think, tackle this at least straight on.

23          The fact of the matter is the IOUs have  
24  tremendous financial interest in the what, where  
25  and when of investment in both transmission and

1 generation in California, on both sides. Not only  
2 as load-serving entities, but as investment  
3 entities.

4 And I'll just note the history that most  
5 of the generation, particularly the nonrenewable  
6 generation that has been moved forward in  
7 California today is essentially IOU projects that  
8 have come through outside of an all-source  
9 solicitation, through specific applications that  
10 they've fostered at the Commission.

11 The renewable stuff is going -- and is  
12 the function of a pretty competitive marketplace.  
13 But when I think about why that's occurring, as  
14 opposed to the nonrenewable stuff, I have an  
15 inkling that it's because it's kind of esoteric  
16 technologies, other than the Stirling technology  
17 that was just approved in the last couple months,  
18 or thought of in the last couple months, most of  
19 it tends to be relatively small. And I just think  
20 that there's not a lot of interest there from IOUs  
21 from an investment perspective.

22 So that brings me to the question what  
23 would I like you to do, or as part of this IEPR.  
24 And I think you should address the application and  
25 relevancy of the hybrid market structure for

1 California.

2 And in that there are a couple key  
3 questions. Can we achieve an open, transparent,  
4 competitive procurement process as articulated by  
5 the PUC, the Energy Action Plan and this  
6 Commission, within that structure. If so, what  
7 conditions are necessary and sufficient to make  
8 that happen. How do we make it work.

9 The Commission has articulated, the PUC  
10 has articulated the role of an independent  
11 evaluator. But IEP and others have filed motions  
12 repeatedly at the Public Utilities Commission  
13 asking how is this entity going to work with this  
14 context. And the answer is there's been a vacuum.  
15 Or this is not the right place to raise the  
16 question.

17 This Commission has raised the question  
18 in this report and yesterday in the hearings about  
19 the role of the PRG. How does that work, and  
20 what's the function of that. I, for one, do not  
21 believe the PRG is an indifferent entity in the  
22 selection of resources. I think they have  
23 actually an indirect or direct financial interest  
24 in the selection process. And that's affecting  
25 the progress that we're making in investment in

1 generation and transmission.

2 Secondly, I think perhaps you need to  
3 look at what is the option of bilateral  
4 contracting and how does that work, and is it  
5 working as planned or envisioned by the PUC. This  
6 is one of the options that the Commission laid up  
7 for procurement. It was going to be open, all-  
8 source solicitations that created the condition  
9 that might allow for bilateral contracting with  
10 certain conditions over it.

11 But so far, at least, it seems that most  
12 of the projects that have actually gone through  
13 the Commission's processes have come through kind  
14 of what I'll call a bilateral kind of contracting  
15 nature, mostly through applications by the  
16 utilities outside of an all-source solicitation.

17 And I'm wondering whether that option is  
18 helping or hindering achievement of a truly open,  
19 transparent, competitive procurement process. And  
20 I'd ask this Commission to investigate that issue.

21 If it is helping, how is it doing that.  
22 If it's not helping, what -- or if it is helping,  
23 under what conditions is it working. And if it's  
24 not, what should we do about it.

25 I personally think these are big issues

1       that until we resolve them we're not going to get  
2       to the fundamentals, or answer the fundamental  
3       question of why there's a lack of investment in  
4       transmission and generation.

5               And as I indicated earlier, I think it's  
6       the huge elephant in the room. And I think it  
7       would be very helpful if this Commission would  
8       tackle that directly in terms of a query of, and  
9       ask the questions and respond to them and put them  
10      out there for public debate.

11             You have done a very good job of raising  
12      the question of transparency and openness and I  
13      applaud you for that. We fully support you on  
14      that. And that is obviously a critical component  
15      of making this market structure work.

16             But I'm wondering whether we can't  
17      achieve that goal because of this hybrid market  
18      structure or not. And it's a rather academic  
19      question that I query to you. I understand that.  
20      But I think it's fundamental to where California  
21      is today and where it's likely to go over the next  
22      couple years from an investment perspective.

23             The private sector is ready to invest in  
24      California. I think there's no doubt, based on  
25      the results of some of the procurement,



1 particularly in the renewable sector, that have  
2 gone out.

3 As you properly pointed out, the problem  
4 is the lack of contracts to get that investment  
5 moving through the pipeline and get the steel in  
6 the ground. And I, for one, think that we need to  
7 deal with those fundamental issues before we can  
8 really be comfortable that we're going to get the  
9 investment we need in a timely manner.

10 So, I pose that for you now. Leave that  
11 as my broad comments, and I will be commenting  
12 more specifically on the report next Friday. But  
13 if you have any questions I'd be happy to answer  
14 them.

15 PRESIDING MEMBER GEESMAN: Well, I would  
16 thank you for some very provocative comments.

17 MR. KELLY: Thanks.

18 PRESIDING MEMBER GEESMAN: The next card  
19 is Greg Blue, Dynegy.

20 MR. BLUE: I'll do it over here if  
21 that's okay. Can everybody hear me?

22 Good morning, my name is Greg Blue. I'm  
23 with Dynegy, but here today on behalf of West  
24 Coast Power, commenting today on chapter 3. But I  
25 want to briefly respond to the demand presentation

1 we saw just recently.

2 I haven't studied all the details behind  
3 them, but to me almost every graph goes up, okay.  
4 And the other problem is our fleet of aging power  
5 plants is another year older. And as the Apollo  
6 13 astronaut said to Mission Control, Houston, we  
7 have a problem.

8 What I want to do today basically is  
9 talk about some highlights because this report is  
10 a good step forward. I want to talk about, in our  
11 opinion, some of the highlights of the report.  
12 Also want to talk a little bit about a couple of  
13 the oversights in the report. And then some of  
14 our views on the current market conditions, as  
15 well as some report recommendations.

16 First of all, also as I read this report  
17 I looked back in the list of participating  
18 entities, and I always like to look for either my  
19 name or my company's name in there. And didn't  
20 see our name in there. Just to remind everybody,  
21 we did give oral testimony on July 7th and it is  
22 posted on the CEC's website. So we are a  
23 participant and have been a participant for a  
24 couple of years in this IEPR process.

25 We think that this process is gaining

1 more importance as the energy policy tool of  
2 California. In fact, we feel it's so important  
3 that I gave up my tickets to see Tiger Woods today  
4 in San Francisco at the golf tournament to come  
5 here. Just kidding.

6 But, anyway, the reason I put this up  
7 here, this is what we basically recommended in the  
8 July 7th workshop. And I'm going to talk about  
9 some of these as we go through here because in the  
10 last three months there's a lot of activity that's  
11 gone on that really has affected some of this.  
12 Some positive and some not so positive.

13 Resource adequacy requirements with  
14 penalties for noncompliance. Tradeable capacity  
15 market. Everybody knows how we feel about that.  
16 Long-term procurement from LSEs. The FERC-  
17 mandated must-offer should be lifted. Remove  
18 uncertainty over core and noncore market  
19 structure. And then, of course, my favorite,  
20 state support needed to implement incentives for  
21 repowering at existing sites. And just keep those  
22 in mind as we kind of go through some of this.

23 Some of the highlights from the  
24 Committee draft report. Assessment of electricity  
25 supply and demand reinforces a conclusion that

1 maintaining adequate electricity reserves will be  
2 difficult over the next few years.

3 California must address its long-term  
4 electricity needs by bringing new generation  
5 online. Lack of available long-term power  
6 contracts has stalled construction for more than  
7 7000 megawatts of plants already permitted. Has  
8 sharply curtailed the amount of capacity seeking  
9 new permits.

10 Unfortunately, the state has only made  
11 minimal progress in implementing many of the  
12 previous IEPR recommendations and California's  
13 economic prospects are suffering as a result.

14 The state must increase its effort and  
15 take immediate action to address problems in the  
16 energy sectors to meet the state's policy goal of  
17 insuring adequate, affordable and reliable energy.

18 First of all, i would like to thank the  
19 staff who wrote this report for basically helping  
20 me write my presentation, because all these points  
21 are taken directly out of the report, itself.  
22 Could have been given by me, but in fact the  
23 staff, these are direct quotes right out of the  
24 report.

25 And the reason I call them highlights,

1       they're not really highlights for the State of  
2       California, because it kind of -- there's some  
3       things in here that aren't really good for  
4       California. But it's highlights because this is  
5       exactly the kind of messages that we've been  
6       telling policymakers for the last two years. So I  
7       want to thank the staff for helping me write my  
8       report.

9               And, again, one more page of some  
10       highlights. Again from the report. IOU  
11       procurement focuses primarily upon near- and mid-  
12       term contracts which perpetuate reliance upon the  
13       existing fleet of aging power plants. That's  
14       what's happening today.

15              The Energy Commission, at least the  
16       point has been reached where long-term procurement  
17       must move forward expeditiously. We  
18       wholeheartedly concur with that. Especially after  
19       seeing the demand forecasts that we saw this  
20       morning.

21              Contingent short-term procurement for  
22       local area reliability prolongs the reliance on  
23       aging units that could otherwise be economically  
24       repowered through longer term arrangements  
25       providing similar grid services at a more

1 competitive price.

2 Some aging plants are critical to  
3 address local reliability concerns. The state  
4 would be better off served by repowering those  
5 that are locationally critical to the grid.  
6 Again, I want to thank the staff again for helping  
7 me write my report, because again, these are right  
8 out of the report. And should sound familiar to  
9 many of you from the things that I've been saying  
10 over the years.

11 There were, however, a couple of  
12 oversights. And by the way, we will be providing  
13 written comments on the 14th which will have more  
14 detail on some of this. And we may even actually  
15 comment on another chapter or two besides chapter  
16 3, but today I'm just talking about chapter 3.

17 In our opinion there are some oversights  
18 in this, and it kind of goes back to what we heard  
19 about in the very first presentation, was how --  
20 what we need to be doing is integrating energy  
21 policy in California. We need to be taking what  
22 the CEC is doing, we need to be taking what the  
23 PUC is doing and we need to be integrating those.

24 One of the things that we didn't see in  
25 the report, and if it is there somebody can point

1 me out, I may have missed it, but no discussion on  
2 how to integrate the CEC's multiyear focus, I'll  
3 call it, which are the studies and the  
4 recommendations, into the one-year resource  
5 adequacy process and the procurement policies of  
6 the LSEs.

7 And somehow getting some longer term  
8 resource adequacy requirements, we think, is real  
9 critical. And any support from the Energy  
10 Commission on that, I think would be -- would kind  
11 of actually support the findings of this report,  
12 which basically are identifying them. We need  
13 longer term focus in California.

14 We didn't see any -- no support for the  
15 development of a capacity market as the logical  
16 and necessary next step for the reform of  
17 California's electricity market. I looked in  
18 there pretty hard; I didn't see really a lot of,  
19 any kind of discussion on capacity markets as  
20 being important. I know all of you up there agree  
21 with that statement; just didn't see anything in  
22 the report on that.

23 There was an assumption in the report,  
24 as well, which we think is wrong. That  
25 maintaining many of the older plants on life-

1 support at low capacity factors have prevented the  
2 construction of more efficient plants that should  
3 operate at higher capacity factors. We believe  
4 that's a wrong assumption.

5 You know, the reason that -- it's not  
6 these older plants that are preventing new plants  
7 from being built. It's the lack of contracts that  
8 we've heard Steven Kelly talk about just awhile  
9 ago. And others have talked about it.

10 Did not see any --

11 PRESIDING MEMBER GEESMAN: Greg,  
12 wouldn't the utilities tell us it's the older  
13 plants that create the lack of urgency about long-  
14 term contracts? I mean it seems to me that's a  
15 circular argument.

16 MR. BLUE: It is, but at some point the  
17 equipment only lasts so long. I mean the plants  
18 can run -- and I'm going to talk about it a little  
19 bit further, but a plant can run for multiple  
20 years, but at some point it just gets too old, ala  
21 Long Beach.

22 No support for lifting FERC-mandated  
23 must-offer with implementation of RMR. We think  
24 that's -- one of the reasons we think this is  
25 important, and I'm going to get to some of these



1 in a minute, but a lot of these policies as we  
2 keep going along are really pushing things towards  
3 the shorter term contracts, versus if you  
4 eliminate some of these things it will actually  
5 accelerate, we think, longer term procurement;  
6 that start happening.

7 We need additional discussion of local  
8 area reliability procurement requirements. The  
9 PUC has deferred on that for a year or so, but the  
10 report seems to infer that transmission upgrades  
11 can solve these problems. And while it can solve  
12 some of the problems, and in fact, RMRs can solve  
13 some of the problems, we're trying to get away  
14 from RMRs. But in reality it cannot be totally  
15 solved by transmission upgrades an RMRs.

16 Just look at the ISO study our local  
17 area requirement needs for the Edison/LA basin,  
18 they're going out for RMR next year of like 750  
19 megawatts. And the local area requirement is  
20 about 4000 megawatts. So we have to deal with  
21 that issue. And we believe there should be some  
22 discussion in this report on that issue.

23 Lastly, the recommendation for  
24 procurement policies that would deal with  
25 retirement or repowering of a group of aging power

1 plants needs more discussion. While we certainly  
2 think there needs to be a policy on retirements  
3 and/or repowerings, we've been saying that for  
4 awhile, we think it needs more discussion than  
5 just an appendix, one paragraph in here that says  
6 we should do something by 2012.

7 Yeah, we agree something needs to be  
8 done. Whether it's 2012 or what that is, we think  
9 needs to be more discussion on that. And maybe  
10 that's a potentially, you know, I hate to keep  
11 saying next year, but potentially a topic for next  
12 year.

13 I understand a lot of these things are  
14 late in the game to be included in the final  
15 report, but these are certainly some ideas.

16 Lastly, which is not on here, is another  
17 oversight, which I'm going to give you a  
18 recommendation for. At the end of chapter 3 on  
19 page 53 and 54, the grand finale of the whole  
20 chapter is that the Energy Commission should make  
21 three recommendations. And, in fact, there's only  
22 two on there. There's a missing third bullet on  
23 what that third recommendation is.

24 So, I've actually -- I have one for you  
25 today. Just to help you out. And it's actually,

1 I think, fits in with the theme of this report.  
2 This recommendation says the Energy Commission  
3 should work with the CPUC to incorporate a  
4 multiyear or longer term focus on resource  
5 adequacy requirements for all LSEs. And I think  
6 that's a legitimate issue that the CEC could  
7 comment on and start working towards.

8 And basically, as far as the current  
9 state of affairs for California I kind of liken it  
10 to what I call the one-step-forward, two-steps-  
11 back California energy policy. Again, this report  
12 is a step forward. I think there's a lot of  
13 positive things out there. However, the current  
14 situation is the only contracts that are being out  
15 there right now being let are RMR contracts, one-  
16 year contracts, short-term bilateral contracts  
17 with existing generation.

18 Now, I do realize that there is -- this  
19 is currently. There is a PG&E RFO for longer term  
20 contracts. And, in fact, the next bullet, no new  
21 generation is starting construction. There  
22 probably -- I need to caveat that. I kind of put  
23 this together last night, but in San Diego Gas and  
24 Electric territory they are building plants down  
25 there. San Diego did decide two years ago they

1 weren't going to wait for California politicians  
2 or policymakers. They decided to go ahead and  
3 start taking care of their needs. And so they are  
4 actually building some plants down there. And  
5 they're moving ahead.

6 The PUC's long awaited resource adequacy  
7 proposed decision, I'm not sure if that's a step  
8 forward or two steps back in some ways. It's  
9 really positive, but what it does it defers a lot  
10 of issues. And these issues are the issues that  
11 are driving people to the short-term procurement  
12 right now. It defers replacement of  
13 noncompensatory must-offer. It defers local area  
14 reliability procurement.

15 The initial sanctions for noncompliance  
16 are, we think, inadequate to actually have any  
17 meaning. It also defers discussion, or it talks  
18 about the capacity process, capacity market  
19 process as a whole another proceeding, which in  
20 my -- anytime you have a new proceeding it's  
21 deferring it from actually happening. Because  
22 that's going to take another year or so to get  
23 done. So, in some ways it's deferring issues that  
24 are really driving the utilities and LSEs back to  
25 shorter term purchases.

1           The other thing that's happened, of  
2       course Edison has filed a motion to withdraw their  
3       RFO for new generation. The ISO, a couple weeks  
4       ago, delisted approximately 960 megawatts for the  
5       2006 RMR of southern California.

6           And then when we did have a whitepaper  
7       on capacity markets from the PUC that everybody  
8       seemed to be getting behind, then the ISO comes  
9       out and files what's been described to me as an  
10      energy-only alternative proposal, which is  
11      potentially a step back. I mean I'm just not sure  
12      we can get there in time. If they were here they  
13      can correct me. Maybe it's not an energy-only  
14      proposal, but that's how it's been described to  
15      me.

16          So this is kind of what's going on in  
17      the state of California. So, we're sort of making  
18      progress, but we're sort of not.

19          And, of course, this is from the  
20      September 12th presentation that I guess many of  
21      you were at, the Joint Energy Agencies meeting.  
22      This is the 2006, kind of our first look at next  
23      summer. And this is from, I guess it's a joint  
24      CEC/CPUC presentation.

25          I was looking at next year, and really

1 the reason I brought this up was to point out that  
2 while in some respects some people have said, gee,  
3 we're looking better, look at that, man. We've  
4 got, you know, expected operating reserves of, you  
5 know, only down to 14 percent in September.

6 Didn't you look at the adverse  
7 scenarios. And then when you get to the adverse  
8 scenario, the one-in-ten and so forth, and we, by  
9 the way, glad we got through this year with some  
10 cool weather. Last year was fairly cool. I'm not  
11 sure, one of these years we're going to have a hot  
12 year. And you may end up with something like  
13 this.

14 But the thing that really stuck out to  
15 me on this slide was line 21, existing generation  
16 without capacity contracts. Now, that was at that  
17 time. And I don't know if anybody has signed any  
18 capacity contracts between now and then.  
19 Nonetheless, this line 21 is included in line  
20 number 1 as part of the existing generation.

21 And we can run the numbers pretty  
22 quickly on some of these existing generation that  
23 without a capacity contract of any kind you cannot  
24 recover your full cost. Just based on the -- just  
25 looking at historical prices with all the

1 mitigation, with all the -- with everything we've  
2 got in California, these older plants just cost  
3 more to operate. And you cannot recover all your  
4 costs absent an RMR contract or a capacity  
5 contract.

6 So that's just highlighting again where  
7 we are in California today. Or this is actually  
8 as of September 12th.

9 Lastly, we have some recommendations for  
10 the report which we'll also be submitting on the  
11 14th. Again, talking about the need for  
12 integrating the multiyear focus into the PUC's  
13 resource adequacy requirements, we think that's  
14 important. We think this report could really help  
15 with that.

16 The other issue that we bring up here is  
17 that we are supporting an expedited PUC proceeding  
18 to address the need for and construction of new  
19 generation to support grid reliability. And  
20 that's in direct response to the issues that  
21 Edison has been raising in their RFO about, okay,  
22 if everybody is -- you know, who is going to build  
23 the next generation to support the grid.

24 You know, San Diego is -- they're  
25 resource adequate. Edison's resource adequate.

1 LADWP is resource adequate. You know, everybody  
2 else seems to be resource adequate. Somebody's  
3 bluffing, you know, playing a game of poker down  
4 there. Somebody's short according to all the  
5 forecasts, all the forecasts.

6 We just, that's one of the things we  
7 really need to do is to figure out where are the  
8 missing megawatts. That's not my quote; that's  
9 what other people have said. Where are the  
10 missing megawatts.

11 But, as part of that proceeding we think  
12 that the scope of that proceeding must allow the  
13 LSEs to provide testimony, so that means all LSEs,  
14 on whether the resource adequacy commitments in  
15 the form of long-term PPAs benefit all customers  
16 in the zones. And if so, whether the costs should  
17 be allocated or not.

18 We think that's a legitimate issue.  
19 It's not, you know, this is kind of something  
20 that's come up during the Edison RFO. But we  
21 believe it is a legitimate issue; it needs to be  
22 looked at. This Commission needs to start, as  
23 well, looking at it and perhaps integrating in  
24 with the PUC on giving your thoughts on all this.

25 We believe, of course, kind of repeating



1 on some of our oversights, the report should state  
2 that the design and implementation of a durable  
3 instate capacity market suitable for the  
4 California environment must begin now, must be  
5 completed as expeditiously as possible.

6 We think that the report should advocate  
7 for the lifting of the FERC-mandated must offer.  
8 And a shorter transition for the use of firm LDs  
9 as counting toward resource adequacy requirements.  
10 Right now the proposed decision from the PUC  
11 allows them to go out to the end of '08. But on a  
12 descending, you know, kind of a scaling back each  
13 year.

14 Nonetheless, again, that allows the LSEs  
15 to rely on those rather than having to go out and  
16 procure steel in the ground, which would hopefully  
17 bring some new steel in the ground, new contracts  
18 for California.

19 And lastly, of course, we think that the  
20 continued support for repowering with new  
21 generation critically located at sites, we  
22 appreciate the support of this Commission,  
23 certainly recognizes this issue. The Legislature  
24 recognized it when they passed AB-1576, the  
25 Governor signed it two weeks ago. I guess it was,

1 or a week and a half ago.

2 Policymakers are realizing the benefits  
3 of this, but we really haven't been able to work  
4 that into the resource adequacy requirements  
5 and/or procurement policies of LSEs. And I think  
6 that this Commission could help moving that ball  
7 along, too.

8 PRESIDING MEMBER GEESMAN: My  
9 recollection is that it was favorably mentioned in  
10 the PUC's December 2004 procurement decision.

11 MR. BLUE: Yes, it was. And I remind my  
12 utility friends of that often.

13 PRESIDING MEMBER GEESMAN: Just seems to  
14 me, Greg, that, you know, that you characterize it  
15 as one-step-forward, two-steps-back. I think I'd  
16 characterize it as the inherent limitation of good  
17 words. At some point good words don't substitute  
18 for signatures on long-term contracts.

19 MR. BLUE: I couldn't say it better  
20 myself.

21 PRESIDING MEMBER GEESMAN: I thank you  
22 for your presentation. I do have a question. I  
23 wonder if you would care to comment on the widely  
24 reported remarks by Commissioner Kelliher  
25 regarding capacity markets versus long-term

1 contracts?

2 MR. BLUE: What was the genesis of what  
3 he said?

4 PRESIDING MEMBER GEESMAN: You and I  
5 were both at the --

6 MR. BLUE: Yeah.

7 PRESIDING MEMBER GEESMAN: -- at the  
8 Independent Energy Producers meeting, and  
9 Commissioner Kelliher was asked about his belief  
10 in the role of capacity markets. And I think, as  
11 you indicated, this Commission has supported  
12 capacity markets pretty strongly in the past.

13 He indicated, and was reported in the  
14 trade press pretty broadly, as having a preference  
15 for long-term contracts as a more reliable means  
16 for incenting new investment.

17 MR. BLUE: Right.

18 PRESIDING MEMBER GEESMAN: And  
19 characterized capacity markets as still somewhat  
20 untested --

21 MR. BLUE: Right.

22 PRESIDING MEMBER GEESMAN: -- in their  
23 ability to bring steel into the ground.

24 MR. BLUE: Okay. Yeah, our opinion on  
25 that, and I believe we've actually stated this in

1 previous testimony, but our opinion is you really  
2 need both.

3 But right now you can't really start a  
4 capacity market when you're in a resource deficit  
5 position. Right now we are in a resource deficit  
6 position in the next relatively short period of  
7 time.

8 And so because of that we believe that  
9 you have to have long-term contracts initially to  
10 get enough generation capacity on the ground, so  
11 you have sufficient capacity, so that you can  
12 start a capacity market.

13 Once again, I think the preference right  
14 now, based on what we're hearing from our lenders  
15 and from our board and from our shareholders is  
16 that they want a contract. Well, again, you're  
17 right. The capacity markets have not had a long  
18 track record.

19 However, we firmly believe that over a  
20 period of time is when the banks are going to  
21 start getting more familiar with capacity markets,  
22 and you may not -- you can get a contract, or at  
23 some point in time the banks may start relying on  
24 the stream of revenue from a capacity market.  
25 That therefore they would be willing to start

1       lending on that basis.

2               So, we believe that you still need to  
3       have both in the market. That's our opinion.

4               PRESIDING MEMBER GEESMAN: Thank you  
5       very much. Gary Ackerman, Western Power Trading  
6       Forum.

7               MR. ACKERMAN: Commissioners geesman,  
8       Boyd and Desmond, good morning. I'm Gary  
9       Ackerman, Executive Director of the Western Power  
10      Trading Forum, a trade association of 44 entities  
11      that trade power across the west.

12              I'm deeply disturbed by a comment that  
13      my friend and golfing partner, Greg Blue, made  
14      that he sacrificed tickets to see Tiger Woods to  
15      come here and talk to you today. I have no such  
16      sacrifice to show you my love and devotion for  
17      your process. But I'm here, and so are you.

18              And today I want to address the  
19      Commission not only on a topic that's in chapter 3  
20      of your draft IEPR for 2005, which would have to  
21      do with long-term procurement, but how it  
22      interplays, as I think you well know, with another  
23      chapter in your draft document on emissions and  
24      greenhouse gas policy, which is chapter 9.

25              And the two run into each -- well, they

1 don't run into each other, they slide into each  
2 other. And I think we should discuss that. So  
3 before I go down that track a little bit and  
4 expand on that point, what I want to do is tell  
5 you what the WPTF, Western Power Trading Forum,  
6 policies are that we've all agreed upon which we  
7 revise from year to year, but as of right now,  
8 regarding greenhouse gas and carbon emissions so  
9 it will set the stage for what I'm going to say  
10 thereafter.

11 So there are four points that our group  
12 has agreed upon. First of all, we believe that  
13 the policies for controlling emissions should be  
14 handled through legislative mandates rather than  
15 CPUC orders.

16 Second, that market-based solutions  
17 should be used to minimize the cost of achieving  
18 any greenhouse gas goals.

19 Number three, since greenhouse gas  
20 regulation deals with a global problem,  
21 California's specific regulation would be far less  
22 effective, I think you'd agree, than  
23 international, national or regional regulation.

24 And finally, that greenhouse gas  
25 regulation is more effective if applied across all

1 industries and sources of emissions.

2 And as I read your policy and heard you  
3 speak on various occasions, we believe that the  
4 Commission and the policies, as we have them, are  
5 fairly well aligned. But I didn't drive up here  
6 today to tell you about the things we agree upon.  
7 That's not too interesting, so let's make this  
8 interesting, let's talk about the things we might  
9 not agree upon too much.

10 And that has to do by bringing an  
11 important resource under long-term contract into  
12 California, coal-fired power by wire.

13 Coal-fired power is necessary for the  
14 west and for California consumers. Without  
15 significant imports of coal by wire electricity  
16 costs would certainly jump up. The variability of  
17 electricity prices would increase if it were based  
18 more and more on gas and less and less on coal.  
19 And grid reliability would certainly be weakened.

20 All three of these outcomes are strong  
21 negatives and cannot be ignored, nor can they be  
22 tolerated.

23 The challenge is finding a way to tap  
24 coal resources while reducing the total emissions  
25 of greenhouse gases and criteria pollutants.

1                   Our answer to this problem is to allow  
2           the use of emission offsets which will enable a  
3           market-based approach to achieving the standard or  
4           any standard you folks set at minimum cost.

5                   Now, offsets can come from many  
6           different sources. Offsets can come from  
7           terrestrial sources. Offsets can originate in  
8           nonpower sectors such as transportation. And most  
9           important, offsets can be traded at a market  
10          value. And as I stated at the outset, we support  
11          market-based solutions in reaching greenhouse gas  
12          goals.

13                   If your draft report and final report  
14          could put some more flesh on the bone, as to  
15          exactly how a wide range of offsets could be  
16          verified and certified, then it would go a long  
17          way to developing a robust system that achieves  
18          the two goals of lower cost and a cleaner  
19          environment.

20                   And unlike dropping the pebble in the  
21          pond and the ripples go out from there and they  
22          dampen over time, I think where you're at right  
23          now with this policy and this discussion is the  
24          exact opposite. This is a small ripple. You've  
25          introduced the concept, you're discussing it. And



1 I believe it's important. It's going to grow and  
2 grow over time. So I think what you do now in the  
3 early stages will have a very strong and long-  
4 lasting impact, and be built upon.

5 Another approach that we would support  
6 is evaluating total emissions based on a portfolio  
7 of coal and renewable resources that, on average,  
8 achieve an emissions level equal to or less than  
9 the proposed standard that you folks mentioned,  
10 that being the emissions of a combined cycle  
11 natural gas turbine.

12 The renewable power in the mix would  
13 have a value, in that coal, on a stand-alone  
14 basis, would otherwise be unable to comply with  
15 the California standard, even with the best  
16 available control technology. So it's easy to  
17 imagine that aggregators want to sign long-term  
18 contracts with buyers, would bundle coal and  
19 renewable resources together into a import  
20 portfolio that would have a definite value and  
21 that would provide the renewable asset owners a  
22 significant revenue stream.

23 So, we support market mechanisms to  
24 achieve emission targets, and we support a system  
25 that could certify offsets, and we support

1 creative bundling of thermal and renewable  
2 resources for California power imports.

3 I want to close with just one comment,  
4 or two comments actually, regarding your report.  
5 My Board spent considerable time working with me,  
6 discussing the comments that I've just shared with  
7 you. And the debate has been vigorous; I think  
8 it's just going to increase in vigor in the time  
9 that we spend on it.

10 But I thought you might like to know  
11 that there was unanimous opinion expressed by the  
12 members in my group that the 2005 IEPR report is  
13 probably the best document they have seen on a  
14 wide range of energy topics and policy options.  
15 It is factual; it's to the point.

16 I would note that one criticism or  
17 shortcoming that some folks noted, and I think you  
18 should also think about this, is that the draft is  
19 silent on some form of tradable capacity  
20 instrument and a market to trade that kind of  
21 instrument that would support the resource  
22 adequacy requirement. That was told to me, and I  
23 double-checked by looking in you chapter 3. And,  
24 indeed, I couldn't find it.

25 Let me put it this way: If you find

1       that comment strange and I find it strange that  
2       you would find it strange, then we better talk.  
3       Because that is a central point to making what we  
4       need here in California work, especially given  
5       what we think will be the order coming out of the  
6       PUC on resource adequacy and how it will affect  
7       the changeover, this transition, which Mr. Blue  
8       alluded to, between now and the end of 2008. Got  
9       to have a capacity instrument; it's important.

10               Notwithstanding that, California is well  
11       served by this Commission's endeavor, and the  
12       agency and staff should be congratulated on its  
13       effort. Thank you, that concludes my remarks,  
14       unless you have questions.

15               PRESIDING MEMBER GEESMAN: Thank you,  
16       Gary. You are a pretty close student of the way  
17       the half-dozen or so different California agencies  
18       interact with each other.

19               In terms of developing the type of  
20       climate or greenhouse gas regulatory regime that  
21       would clarify the role of offsets, do you really  
22       think this Commission should get out in front of  
23       the Governor's Climate Action Team, which is due  
24       to report in January?

25               MR. ACKERMAN: Well, January's pretty

1 close for this Commission, I supposed, to try and  
2 do something or craft something that would quote,  
3 "get in front of everything else."

4 But as I said earlier, I think what  
5 you're doing now obviously we're paying closer  
6 attention to with regard to the role of coal  
7 imports, for example, and how it will fill a  
8 certain need here in California.

9 If that's a start, and I see the  
10 amplitude of those waves getting larger and larger  
11 then I think you don't have to get in front of  
12 anybody to do the good things that I think you're  
13 capable of doing.

14 So, you know, agencies come and go,  
15 policies come and go, I'm a little bit of a cynic  
16 about that. What ultimately happens in the long  
17 run will depend not only on what you folks come up  
18 with, but also what kind of agreements can be  
19 mustered with Oregon, Washington and maybe the  
20 other states in the west, which I think is  
21 happening on the Governor's team, as well.

22 So I don't know if I've answered your  
23 question. Maybe I have. I think I've indicated  
24 you can't jump out ahead, the time is too short.  
25 But that doesn't, in my mind, diminish in any way

1        what you've achieved or attempted to achieve here  
2        in your draft report.

3                PRESIDING MEMBER GEESMAN:    And the other  
4        topics, tradeable capacity product, resource  
5        adequacy requirements, even in this new era of  
6        close collaboration between agencies --

7                MR. ACKERMAN:    Love, call it love.

8                (Laughter.)

9                PRESIDING MEMBER GEESMAN:    I don't want  
10       to lessen --

11               MR. ACKERMAN:    Yeah, right.    I had to  
12       read that one into the record.

13               (Laughter.)

14               PRESIDING MEMBER GEESMAN:    Even in this  
15       new era there is a finite list of things that we  
16       can effectively convey to the CPUC.    And I think  
17       one of the primary motivations of our focus in  
18       this report is to try and concentrate attention on  
19       the pretty simple message that it's long-term  
20       investment, stupid.

21               I'm fearful that some of these other  
22       issues, that we've dealt with in our past reports,  
23       and they've certainly come up in our hearings, and  
24       we do have a collaborative effort with the CPUC in  
25       their resource adequacy proceeding.

1           I'm fearful that trying to address too  
2   many of these shorter term issues  
3   contemporaneously with our key message may not be  
4   well received by our colleagues in San Francisco.

5           MR. ACKERMAN: I disagree. I don't  
6   think that this one particular issue that I've  
7   mentioned to you, the shortcoming, should be put  
8   to the side for fear that it is maybe excess  
9   baggage on some of the other messages that you put  
10  forward.

11           After all, this is a document that is  
12  very broad. It's noted as such. It's appreciated  
13  as such. And being silent on something sometimes  
14  sends a message that you didn't intend. And I  
15  think you've sent that message. It's an incorrect  
16  message, --

17           PRESIDING MEMBER GEESMAN: That's fair.

18           MR. ACKERMAN: -- and I want you to  
19  correct it.

20           PRESIDING MEMBER GEESMAN: That's a fair  
21  comment.

22           ASSOCIATE MEMBER BOYD: I want to expand  
23  on this same dialogue a little bit. I had the  
24  question, I'm still going to ask it, even after  
25  this last discussion.

1                   Commissioner Geesman asked Greg Blue  
2           about the capacity market concept vis-a-vis long-  
3           term contracts. And you've been talking around  
4           that just now.

5                   But I'd like to hear your answer to the  
6           very same question. Or I'd like to ask if you  
7           agree with Greg. He said --

8                   MR. ACKERMAN: No.

9                   ASSOCIATE MEMBER BOYD: -- you got to  
10          have the long-term --

11                   MR. ACKERMAN: Well, you're really going  
12          to see some dancing around now. Keep in mind that  
13          when you have as many members as I do that  
14          represent both generators and marketers and load,  
15          they're going to look at things quite differently.  
16          And they're going to look at, for example,  
17          capacity markets as being instrumental for  
18          attracting long-term investment. Whereas the  
19          marketers in the load, load-serving entities, will  
20          say no, it's quite the opposite. It's long-term  
21          contracts.

22                   So, I'm faced, as just this is reality,  
23          with the fact that there are two answers out  
24          there. And I think, and I've characterized this  
25          in my private musings, which of course you don't

1       see very much of, Jim, I know, but in my private  
2       musings as we're at the point of the I-don't-know  
3       phase in this debate.

4               And John mentioned Kelliher's comment at  
5       the IEP meeting two weeks ago, and it struck me.  
6       It struck me very hard that here was somebody who  
7       has a sense of where this thing might be going,  
8       and he answers the same way: I don't know, I  
9       don't know if it's capacity markets that are  
10      necessary to have a competitive wholesale market  
11      or not.

12             So, I'm not going to be able to answer  
13      your question in a satisfactory manner, as you  
14      like, because there are differences of opinion.  
15      And I think when you're looking at energy you're  
16      going to run into a number of issues where there  
17      obviously differences of opinion. This is just  
18      one of them.

19             But I think the important thing to take  
20      away is if you think it's capacity markets and  
21      nothing else, I'm pretty sure you're wrong. And  
22      if you think it's long-term contracts and nothing  
23      else, I'm pretty sure you're wrong. Somewhere the  
24      answer must lie, the truth must lie. But we  
25      haven't found it, nor has any other region in the



1 country.

2 ASSOCIATE MEMBER BOYD: I thought you  
3 were getting off too easy earlier, so, thank you.

4 MR. ACKERMAN: Yeah, well, you know, we  
5 try.

6 PRESIDING MEMBER GEESMAN: And I would  
7 credit you with publishing your private musings  
8 every week.

9 (Laughter.)

10 MR. ACKERMAN: Well, that's just a  
11 coincidence. Has nothing to do with why I'm here  
12 today. Or have an option on tickets to Huddart  
13 Park later this afternoon. I have a price in  
14 mind, you can talk to me later.

15 Any other questions?

16 PRESIDING MEMBER GEESMAN: Thanks,  
17 again, Gary.

18 MR. ACKERMAN: Thank you.

19 PRESIDING MEMBER GEESMAN: Robb  
20 Anderson, San Diego Gas and Electric.

21 MR. ANDERSON: Good morning; I'm Robb  
22 Anderson, Director of Resource Planning for San  
23 Diego Gas and Electric. We will be submitting  
24 written comments next week, but I just wanted to  
25 highlight a few items for you today.

1           First of all, we thought the report did  
2           a very good job on highlighting some of the  
3           threats and concerns that we do have in the state.  
4           But one of the items that we were looking for that  
5           we really don't see in the report is how are we  
6           going to trade these off. We're not convinced  
7           that we can do all of them all at the same time.

8           As the Resource Planner right now, I'm  
9           already receiving more policy guidance and more  
10          comments that I've actually got room in my  
11          resource plan to accommodate. So I have to  
12          sometimes prioritize these things.

13          And more guidance from you to the extent  
14          we do need to trade off or do some prioritization,  
15          letting us know which direction you'd like us to  
16          go, we would find helpful. Right now we follow  
17          the loading order. That may be the right thing to  
18          do. If there's another direction, we'd be  
19          interested in hearing it.

20          In the overall resource chapter the only  
21          comment I'd like to make today is we will provide  
22          you some written comments. I'll try to make them  
23          as modest as I can, but we'd like the report to  
24          recognize some of the efforts that certain parties  
25          are already taking in this area. I did not script

1 Greg Blue, although I will thank him for the  
2 comments.

3 And SDG&E has been signing long-term  
4 contracts. In fact, about all we've been doing is  
5 signing long-term contracts. Those contracts are  
6 resulting in 2000 megawatts of new capacity  
7 getting built in the state. Some of those  
8 projects are already online delivering today.  
9 Others are finishing up construction and will be  
10 online before the peak of next year. Others will  
11 come on then in the next year or two after that.

12 And I note 2000 is a bit of a dent in  
13 the state, but that really represents about 50  
14 percent of San Diego's load. So we have made a  
15 significant commitment to long-term contracts to  
16 get new capacity built to serve our load.

17 PRESIDING MEMBER GEESMAN: How have you  
18 mustered the courage to do that in the face of  
19 uncertainty about who your future customers will  
20 be?

21 MR. ANDERSON: We really looked at it  
22 from the standpoint of we need to make sure that  
23 reliability is met. And most of our contracting  
24 was done in order to get power plants built within  
25 our load pocket. And if we didn't step up and do

1       it we knew it wasn't going to get done.

2               And the general view that the utility  
3       was, in the end, going to get held accountable for  
4       the reliability of the system. So we've stepped  
5       up --

6               PRESIDING MEMBER GEESMAN: A traditional  
7       utility perspective on public service.

8               MR. ANDERSON: We've stepped up and done  
9       it. We've asked the PUC and have gotten, we  
10      think, fairly good assurances that should load  
11      leave we will get some stranded cost recovery for  
12      those commitments we've made.

13              PRESIDING MEMBER GEESMAN: And an  
14      awareness that if you don't meet those public  
15      service obligations your regulator is likely to  
16      clobber you.

17              (Laughter.)

18              MR. ANDERSON: I think that's --

19              PRESIDING MEMBER GEESMAN: I wish you  
20      had more influence within your trade association.

21              (Laughter.)

22              MR. ANDERSON: I'd like to make a few  
23      comments on the staff's electric load forecast.  
24      The staff has updated it. They took a number of  
25      our suggestions from the draft forecast and have

1 included those in the new forecast. And we are  
2 actually now pretty comfortable with the load  
3 forecast through about 2008.

4 Beyond 2008, though, we still have some  
5 concerns with the forecast. And I'm not the load  
6 forecaster, but let me kind of put in a pretty  
7 broad perspective.

8 If we look at peak load growth per  
9 capita in San Diego, during the 1980s it grew at 1  
10 percent a year. During the 1990s it grew at 2  
11 percent a year. During the last couple years it  
12 has grown at 3 percent a year.

13 The staff's forecast right now for '08  
14 through '11 excluding DSM, note the numbers I gave  
15 you before are after all the impacts of DSM, has  
16 it growing at .2 percent a year. If we roll in  
17 DSM, I think the staff's forecast is actually a  
18 negative peak load growth per capita.

19 We're not aware of any fundamental shift  
20 that will occur in San Diego that will cause the  
21 load to taper off that much in that timeframe.

22 This is also a time period that I'm very  
23 concerned about because the 2010, that timeframe  
24 is now the timeframe that we are really focusing  
25 on because that's when our DWR contracts start

1        falling off, we start seeing additional grid  
2        reliability issues in that time period. So we  
3        think the forecast out in that time period is very  
4        critical to get and get it right, and make sure  
5        that at this point in time we're not under-  
6        estimating load. Because we all know what happens  
7        when we do that.

8                Lastly, on the greenhouse gas proposal.  
9        Right now --

10                PRESIDING MEMBER GEESMAN: Before you  
11        get to that, Robb, can I ask that your written  
12        comments address those forecast differences in as  
13        much detail as you have the time to do in the next  
14        week?

15                MR. ANDERSON: We will.

16                PRESIDING MEMBER GEESMAN: We'd  
17        appreciate that.

18                MR. ANDERSON: On the greenhouse gas  
19        proposal, right now we probably have more  
20        questions and concerns than a real answer to you  
21        at this point in time. And some of these you've  
22        heard from other people, and I'll highlight a few  
23        others.

24                First of all is the issue of peaking  
25        versus baseloaded resources. I think you heard

1       that yesterday. It's a standard that baseload  
2       resources may be able to meet. Peaking resources  
3       right now cannot. And the majority of what we're  
4       going to need in the future are going to be  
5       peaking resources.

6               PRESIDING MEMBER GEESMAN: And that  
7       criticism is --

8               MR. ANDERSON: Right, we need --

9               PRESIDING MEMBER GEESMAN: -- well  
10      taken.

11              MR. ANDERSON: -- to iron that one out.

12              Next is by adopting such a standard are  
13      we, in essence, creating a greater reliance on  
14      natural gas, or at least accepting the reliance we  
15      have on natural gas at this point in time. I'm not  
16      sure that we've thought that out. If that's the  
17      tradeoff we're making, fine. But let's be clear  
18      that that's what we're making.

19              I don't think we can continue to say  
20      that our reliance on natural gas is too high if  
21      what we've really made is a conscious decision  
22      that relying on natural gas is a better thing to  
23      do if doing so helps reduce the greenhouse gas  
24      impact.

25              Another point is depending on how we

1       implement this, we're concerned that it might  
2       create incentives once again for parties to go  
3       short rather than make long-term investments. And  
4       we need to iron out to make sure that we're not  
5       implementing this in a way that drives that kind  
6       of decisionmaking.

7               And lastly of all is, as we will put in  
8       our written comments, this needs to apply to all.  
9       The IOUs are a big part of the mix, but if this is  
10      what California needs everyone in California  
11      should adopt it.

12             Thank you very much.

13             PRESIDING MEMBER GEESMAN: Thank you.

14             MS. TURNBULL: Good morning, Chairman,  
15      Commissioners, Staff. I'm Jane Turnbull; I'm here  
16      on behalf of the League of Women Voters of  
17      California.

18             First of all, before I start on my  
19      comments for today I would like to take a chance,  
20      the opportunity to respond to a question that  
21      Commissioner Geesman asked me yesterday with  
22      regard to the performance standard for greenhouse  
23      gases.

24             He asked me about would the League  
25      support offsets. Certainly offsets makes some



1 good sense if they are verifiable. I think one of  
2 the problems is that in a lot of the work that has  
3 been done so far, because offsets come out of very  
4 complicated systems, the potential for leakage in  
5 those systems is really very great. So only when  
6 there is a well-developed cap-and-trade system  
7 would offsets really make good sense.

8 But in terms of what we're all about  
9 this morning, both the PUC and the Energy  
10 Commission have been proclaiming the critical  
11 needs for more power plants and transmission  
12 facilities for the past three years. But as the  
13 draft report notes, very little progress has been  
14 made.

15 At least the energy efficiency programs  
16 administered by the IOUs appear to be in place and  
17 evolving effectively. The state's increased  
18 dependence on natural gas and the increasing cost  
19 of this gas is placing great economic pressure on  
20 both businesses and individuals.

21 More than 60 aging power plants across  
22 the state have heat rates of greater than 9500  
23 Btus per kilowatt hour. Overall they are at least  
24 30 percent less efficient than the new combined  
25 cycle plants. Yet their owners are able to recoup

1 the full cost of fuel.

2 Since it's clear that these owners need  
3 an incentive to think seriously about investing in  
4 repowering, one possible incentive would be to  
5 place a surcharge on the cost of natural gas  
6 burned by any and all power plants that have heat  
7 rates greater than 800 Btus per kilowatt hour --  
8 8000 Btus per kilowatt hour.

9 The League has already presented  
10 comments on the strategic transmission plan, but  
11 we want to reiterate the vital need to bridge the  
12 remaining issues and bring the CPUC and the Energy  
13 Commission together to address our serious  
14 transmission congestion concerns.

15 We are pleased that SDG&E has called for  
16 public involvement in efforts to site transmission  
17 that will bring power into the state from the  
18 southwest. We have yet to see any proposal to  
19 bring seasonal power into the state from the  
20 northwest.

21 Resource adequacy will not be achieved  
22 simply by having the CPUC set up a process, one  
23 that attempts to implement a 15 percent planning  
24 reserve. Resource adequacy requires that  
25 potential investors in new capacity have both the

1 financial wherewithal and incentives to invest.

2 For several years the existence of  
3 20,000 megawatts of long-term and expensive DWR  
4 contracts has been the reason given for lack of  
5 investments. Lately the major reasons that have  
6 been offered are continuing limitations on long-  
7 term contracts, and the lack of regulatory  
8 certainty.

9 We're not able to judge the relative  
10 importance of these reasons. Thus, it appears  
11 that it would be prudent to attempt to address  
12 both of them. We would like to see a request for  
13 offers to provide additional capacity be for  
14 contracts of at least ten years. We would also  
15 like to have the PUC and the Energy Commission  
16 hold a public hearing on why the two Calpine  
17 facilities are not entitled to ten-year contracts.

18 In addition, we would like to see the  
19 whole issue of direct access be tabled for at  
20 least the next five years. The League does not  
21 have a position on direct access. However, we do  
22 support efficient, effective and equitable  
23 governmental processes. And the recent debates  
24 over reinstating direct access have not  
25 contributed to regulatory certainty.

1           We continue to support consistent  
2       resource adequacy requirements for all retail  
3       sellers in the state. And we also encourage the  
4       Commission to do all that is needed to insure that  
5       the procurement process be an open, transparent  
6       and competitive process.

7           The draft report presents an important  
8       and comprehensive discussion of concerns about the  
9       IOUs' demand that resource planning data be kept  
10      private. Including the summary comment from the  
11      Commission that open public debate about the data,  
12      assumptions and alternatives forming the basis of  
13      IOU resource planning decisions has been severely  
14      truncated -- unquote.

15          The IOUs' position on confidentiality of  
16      data includes all information associated with the  
17      application of least-cost/best-fit criteria in the  
18      selection of bids and in the details of contracts.  
19      Without that information the public cannot have  
20      any confidence in the decision process.

21          This privacy issue may be the most  
22      critical one that our state needs to address if  
23      there is to be any rationality in the  
24      comprehensive integrated planning process.

25          Before AB-1890 the IOUs did strategic

1 long-term planning. Now in our so-called hybrid  
2 system either the Energy Commission does strategic  
3 planning or it doesn't get done. The Energy  
4 Commission cannot be effective if it doesn't get  
5 good information. It's important to note that the  
6 Commission is not looking just to the IOUs for  
7 information, but to all load-serving entities that  
8 retail at least 200 megawatts of capacity.

9 The League certainly respects the  
10 confidentiality of proprietary information. But  
11 we don't support failing to disclose information  
12 that is to be used in defining resource planning  
13 decisions if that information is directly relevant  
14 to the public good.

15 In light of what has already been said,  
16 the League agrees with the draft report that long-  
17 term contracts with renewable resources which have  
18 no ongoing natural gas price exposure turn the  
19 modernization concept into a true hedge against  
20 long-term natural gas prices. Renewable resources  
21 as the so-called rebuttable presumption for long-  
22 term procurement might just come to be a favorite  
23 expression around the state.

24 But one personal further comment that I  
25 would like to make is that even though I served as

1 a member of the National Coal Council for several  
2 years in the 1990s, I personally am not optimistic  
3 about clean coal technologies in California, or  
4 the proposals to sequester carbon dioxide for  
5 centuries. I think we should look to focusing on  
6 in-state capacity rather than out-of-state coal  
7 capacity.

8 Thank you for the opportunity to be here  
9 today.

10 PRESIDING MEMBER GEESMAN: Well, thank  
11 you, once again, Jane. I would like to ask you,  
12 in terms of your recommendation that debate on  
13 direct access be suspended for a period of time,  
14 whether you would distinguish community choice  
15 aggregation from that.

16 MS. TURNBULL: We consider community  
17 choice aggregation a form of direct access.

18 PRESIDING MEMBER GEESMAN: So you would  
19 suggest that we suspend further consideration of  
20 that for the same period of time?

21 MS. TURNBULL: Well, the League  
22 supported AB-117 a couple years ago, --

23 PRESIDING MEMBER GEESMAN: That was the  
24 Migden bill?

25 MS. TURNBULL: -- but since that time we

1 have had some reservations. Just because of the  
2 regulatory uncertainties that have been  
3 multiplying.

4 So, you know, just the discussion seems  
5 to, you know, keep muddying the pie. And just as  
6 soon, you know, make sure that we do have the  
7 reliability that we're really going to need.

8 PRESIDING MEMBER GEESMAN: Thank you  
9 very much. Al Pak, Semptra Energy Global  
10 Enterprises.

11 MR. PAK: Thank you, Commissioner, good  
12 morning. I wanted to start where I left off two  
13 years ago with the -- when we were discussing the  
14 2003 IEPR.

15 (Laughter.)

16 PRESIDING MEMBER GEESMAN: Now, you've  
17 been back several times since then, Al, so --

18 MR. PAK: Well, I know, but --

19 PRESIDING MEMBER GEESMAN: -- you're  
20 going to have to refresh us if you're going back  
21 that far.

22 MR. PAK: Well, what I wanted to start  
23 off by saying was that once again the amount of  
24 work and good thinking that has gone into the  
25 Integrated Energy Policy Report process, as well

1 as the Committee draft, are self evident. This is  
2 an outstanding piece of work.

3 And I was part of the discussions that  
4 Mr. Ackerman had referenced within the WPTF. That  
5 while there were a considerable amount of  
6 controversies with respect to some of your  
7 recommendations, there was a unanimous agreement  
8 that this is a stellar piece of work. And that  
9 the Committee and its staff should be recommended  
10 for its contribution to the debate about energy  
11 policy in the State of California.

12 With that said, I think this is going to  
13 go downhill from there, so --

14 (Laughter.)

15 MR. PAK: We very much appreciate the  
16 idea that the recommendations related to utility  
17 procurement are attempting to strike a balance  
18 between achieving and maintaining system  
19 reliability, maintaining affordable prices, and  
20 mitigating environmental impacts from the energy  
21 industry.

22 In the first instance, we agree that  
23 assuring system reliability will require the  
24 addition of about 2000 megawatts of new capacity  
25 per year through 2016. And that this will permit



1 the orderly retirement or repowering of existing  
2 facilities, the replacement of expiring contracts  
3 and enable us to meet demand growth.

4           Semptra Global also agrees with the  
5 recommendation that the utilities should be the  
6 ones that should be required to execute long-term  
7 agreements for new resources that will meet this  
8 requirement.

9           It is simply the case that under current  
10 market conditions the financial certainties  
11 offered by utility ratemaking and state support of  
12 contracts are necessary, at least from the  
13 financial community's standpoint, more reliable  
14 than returns that can be achieved through an open  
15 market.

16           We also agree with WPTF that the report  
17 needs to go a little further in terms of  
18 supporting capacity markets and a tradeable  
19 capacity instrument, so that if there is load  
20 migration in the future either due to direct  
21 access or community choice aggregation, the  
22 utilities have an ability to shed the capacity  
23 that might otherwise be excess to their bundled  
24 customer needs.

25           You have referenced a comings-and-goings

1 policy in other portions of the IEPR draft as a  
2 method of attempting to deal with potential  
3 stranded resources. We think a capacity market  
4 would be a better idea. This also would  
5 facilitate the year-ahead procurement that  
6 nonutility load-serving entities have to go  
7 through as a result of the resource adequacy  
8 requirements that they will be encountering come  
9 this January.

10 PRESIDING MEMBER GEESMAN: Now, I'm  
11 guessing that you're not speaking for the utility  
12 today.

13 MR. PAK: No, --

14 PRESIDING MEMBER GEESMAN: Am I right?

15 MR. PAK: -- I'm actually speaking on  
16 behalf of my load-serving entity, Sempra  
17 Solutions, which --

18 PRESIDING MEMBER GEESMAN: Okay,

19 MR. PAK: -- will be required to post up  
20 from commitments of firm capacity to the ISO  
21 commencing June 1st of 2006. We are entering that  
22 market without any assurance that we will have an  
23 ability to meet the requirements of the PUC.  
24 Nevertheless, we are going to make a good faith  
25 effort to do that.

1                   But we think that if the utilities do  
2       procurement, to the extent that there is a  
3       tradeable instrument available and a market in  
4       which to trade those instruments, we might be able  
5       to procure, over the long term, from that market.

6                   PRESIDING MEMBER GEESMAN: But if a  
7       utility, pursuant to state policy, engaged in  
8       long-term procurement, purchased a certain amount  
9       of capacity, suffered some load migration through  
10      community choice aggregation, as an example, where  
11      we have suggested coming-and-going rules that  
12      would avoid a stranded asset problem, if I hear  
13      you correctly you're suggesting a capacity market  
14      as a preferred mechanism to address that stranded  
15      asset problem.

16                  And my question to you, in the  
17      hypothetical instance that this happened and you  
18      were the utility, would you be satisfied with  
19      whatever price you could get in such a capacity  
20      market?

21                  MR. PAK: I wouldn't want to try to  
22      guess at what Mr. Anderson's answer might be.

23                  PRESIDING MEMBER GEESMAN: Oh, I think  
24      you could guess.

25                  (Laughter.)

1           MR. PAK: Actually I would think it  
2 would depend on the relative capacity needs of the  
3 region as compared to what --

4           PRESIDING MEMBER GEESMAN: Let's say the  
5 utility said the value of the stranded asset is  
6 worth a lot more than I can get in tomorrow's  
7 capacity market.

8           MR. PAK: In any event, we think that  
9 the market mechanism would be better than some  
10 kind of a standard rule. I mean, as it stands  
11 now, what the utilities have typically been doing,  
12 although you called it courage, there is the CPUC  
13 rider in most of the approval processes that any  
14 stranded costs would be recovered or assigned to  
15 the load that migrated out of the bundled service.

16           We think that has effects on competition  
17 and the viability of the expansion of the direct  
18 access market. Obviously San Diego Gas and  
19 Electric and the Sempra Global Companies would  
20 disagree as to whether that's the appropriate  
21 placement of risk. But nevertheless, we do agree  
22 with San Diego that you ought to address the risk  
23 and how that's resolved.

24           Going back to the report, Sempra Global  
25 also agrees with your recommendation that

1 transmission corridors should be identified at the  
2 earliest possible time and reserved for future  
3 use. And further, where necessary, that  
4 appropriate ratemaking mechanisms be adopted that  
5 would permit the rate recognition of the assets  
6 associated with corridors that would be set aside  
7 until their use was actually implemented.

8 We noticed that you had omitted any  
9 discussion of the recent action by the Department  
10 of Energy and Department of the Interior. In  
11 their action they have noticed that they will be  
12 preparing a programmatic environmental impact  
13 statement for future transmission corridors across  
14 federal lands in the west pursuant to the Energy  
15 Policy Act of 2005.

16 We think that there could be a lot of  
17 synergies between the Energy Commission and the  
18 PUC's activities in the area of identifying future  
19 corridors with the DOE/DOI notice. Especially  
20 since California is going to remain the largest  
21 load sink in the region for the foreseeable  
22 future. The terminus of many of these lines is  
23 going to be California; and the markets to which  
24 they will attempt to reach will be in California.

25 And we think that coordination here

1 would be appropriate. It sounds like you're both  
2 trying to achieve the same objectives. We  
3 encourage you to do that. And to the extent that  
4 federal and state cooperation and coordination  
5 would improve the process, we would strongly  
6 recommend that you take the opportunity to  
7 participate in that proceeding.

8 We agree that California electricity  
9 prices are going to remain relatively high across  
10 the near term. And that they will increasingly  
11 carry price volatility risks associated with  
12 perturbations in the natural gas market.

13 As you know, we are the developers of an  
14 LNG terminal in Baja region. That some of the  
15 deliveries from that plant will enter the  
16 California market. And we agree that the entry of  
17 this gas into the California market will have,  
18 upon its introduction in about 2008, the effect of  
19 a short-term price reduction. But we also agree  
20 with the Committee draft's conclusion that gas  
21 prices eventually will equilibrate to some higher  
22 level against the supply/demand balance that's  
23 forecasted in the report.

24 That has a lot of implications for  
25 utility procurement, and I'm going to turn to that

1 in a moment. Before I get to that I should say  
2 that Sempra Global Companies fully accept your  
3 recommendation as fact, that utility procurement  
4 will be governed and take into account greenhouse  
5 gas emission policies in the state. And that that  
6 policy will be a part of achieving the Governor's  
7 greenhouse gas targets.

8 We do want to recommend that you provide  
9 enough flexibility as to how greenhouse gases are  
10 taken into account so that reliability and price  
11 goals are not sacrificed in order to meet the  
12 greenhouse gas goal as a priority.

13 Let me say that we fully recognize the  
14 importance of reflecting the Governor's objectives  
15 in the IEPR and the Energy Action Plan. It's not  
16 going to be open to debate, but I don't think  
17 there's very much serious debate about the fact  
18 that utilization of domestic coal resources can  
19 contribute to security benefits, price benefits  
20 and risk management advantages in the energy  
21 market.

22 As we have tried to sort through the  
23 different policies, and I think Robb Anderson  
24 talked about all the different policies he has to  
25 juggle in doing his procurement, we've identified

1 six specifically from the IEPR draft.

2 One, maintaining retail prices at  
3 reasonable levels, and in particular, hedging gas  
4 price volatility and gas supply disruptions,  
5 whether from a Katrina-style event or a less  
6 spectacular pipeline outage.

7 Two, achieving net reductions in  
8 California's contributions to global CO2  
9 emissions.

10 Three, creating the financial incentives  
11 that will result in adding the 2000 megawatts of  
12 new capacity per year that are needed. And this,  
13 actually we sort of thought this figure would be a  
14 little low, depending on how the market  
15 restructures itself in response to the CPUC's  
16 resource adequacy requirements and the California  
17 ISO's MRTU markets.

18 The fourth goal was providing for the  
19 orderly retirement or repowering of aging fossil-  
20 fired plants and the replacement of expiring  
21 contracts.

22 Fifth, capturing the values that coal-  
23 fired units can bring to the electricity market.

24 And six, minimizing the exposure to  
25 resource stranding that might come from load



1 migration between load-serving entities.

2 Now, in terms of balancing these goals  
3 we think that you have correctly identified the  
4 fact that the rubber meets the road in terms of  
5 trying to achieve these, and achieving a balance  
6 between these in the long-term procurement plans  
7 that are filed by the utilities every two years  
8 with the CPUC.

9 As we look at it, as a developer, the  
10 relevant long-term procurement plans that would be  
11 affected by this IEPR would be the 2006 and 2008  
12 utility filings. This would involve requests for  
13 proposals that would be issued, we think, in the  
14 period 2006 through 2009, and maybe into 2010.  
15 And it would cover the resource period 2006  
16 through 2018.

17 Now, based on our current analysis, IGCC  
18 as a technology, with or without sequestration,  
19 would not be competitive in the procurement that  
20 would be conducted pursuant to these two sets of  
21 filings.

22 In order to be considered by a utility  
23 in the context of these RFPs, let alone be  
24 competitive or successful in winning a contract,  
25 any IGCC project would have to meet availability

1 and performance guarantees that would be specified  
2 by the utilities under the terms of their plans  
3 and under the terms of their RFPs.

4 This would typically, we anticipate,  
5 require a performance guarantee on behalf of the  
6 developer amounting to something in the order of a  
7 95 percent availability guarantee during periods  
8 of peak demand. Now it could be higher. It's not  
9 unheard of for that availability requirement to be  
10 100 percent at peak, which simply means that if  
11 the plant isn't operating during those periods we  
12 are responsible for the incremental costs of  
13 replacement power or capacity.

14 Now, when we discuss these kinds of  
15 guarantees with IGCC contractors and  
16 technologists, we actually never reach the point  
17 of discussing price. The technologies are just  
18 not sufficiently mature that people have  
19 confidence that these guarantees can be provided,  
20 let alone priced, assuming the use of water-heavy,  
21 ash-laden and low-ranked coals available in the  
22 west.

23 We anticipate that these guarantees will  
24 be provided at some time in the future, probably  
25 in the seven- to ten-year window, but if

1 California specifies if IGCC -- and again, with or  
2 without CO2 sequestration, is going to be the only  
3 coal-fired technology that is permitted into the  
4 California resource mix, there will be no coal-  
5 fired resources added to the utilities'  
6 portfolios, whether by contract or ownership until  
7 2015 at the earliest, in the absence of the  
8 provision of substantial financial guarantees to  
9 the developers, and along the lines of eliminating  
10 those availability guarantees that I talked to  
11 earlier.

12 This means that we probably put off  
13 until 2010 discussion of the addition of coal-  
14 fired resources in the utilities' long-term  
15 procurement plans. This, in our minds, results in  
16 the sacrificing of goals related to maintaining  
17 reasonable rates capturing the benefits offered by  
18 domestic coal resources, avoiding over-dependence  
19 on natural gas as a fuel, and assuring that new  
20 capacity is added to the mix of California  
21 resources prior to 2016.

22 Now, a viable alternative during these  
23 interim years to waiting for IGCC or providing the  
24 financial kinds of incentives that I talked about  
25 is to take the view described in the chapter 9

1 discussion of climate change and that has been  
2 discussed in the memorandum provided by Chairman  
3 Desmond to the Committee.

4 And that's specifically to provide a  
5 flexible means by which more conventional  
6 commercially available coal-fired generation could  
7 be added while still meeting environmental  
8 objectives. And that's why Sempra Global strongly  
9 supports the development and implementation of a  
10 multi-sector, geographically unbounded offset  
11 market as the means to balance the six goals that  
12 I mentioned earlier without sacrificing any one  
13 for the sake of another.

14 Now, I'm going to use Sempra's proposed  
15 Granite Fox project as an example, but I want to  
16 make sure that we understand that the discussion  
17 over whether offsets should be permitted is not  
18 about whether Granite Fox will or will not be  
19 developed, or whether Sempra Global will or will  
20 not make money.

21 The economics and location of the  
22 Granite Fox project simply make it extremely  
23 attractive to any number of wholesale buyers, many  
24 of whom are beyond the reach of either the CEC or  
25 the CPUC.

1           In terms of the policy recommendations  
2       that we have seen, and more recently that were  
3       adopted by the California Public Utilities  
4       Commission, we're at Sempra Global actually  
5       financially conflicted. We have a substantial  
6       fleet of uncommitted combined cycle combustion  
7       turbines whose capacity just got more valuable as  
8       a result of the CPUC's action. What we are sort  
9       of comparing that against is the loss margin that  
10      we might get from a coal project in terms of  
11      energy deliveries, as against state gas-driven  
12      energy market.

13           In any event, what we think is really  
14      open to discussion in terms of debating whether  
15      offsets should be permitted or not permitted is  
16      whether California will permit its utilities to  
17      capture directly the benefits that coal projects  
18      can offer to the energy markets.

19           To meet the greenhouse gas standard that  
20      was posed by the Commission, the combined cycle  
21      gas-fired plant proxy, at Granite Fox we would  
22      need to mitigate about one-half of the total CO2  
23      emitted by the plant.

24           Using the CPUC-adopted risk standard of  
25      \$8 per ton of CO2 emissions, this would raise the

1 price of energy from the plant by about \$3 to \$4  
2 per megawatt hour depending on the duty cycles  
3 that the plant was placed under.

4 Now, this is actually something that the  
5 project, itself, could absorb without harming its  
6 competitiveness in terms of other resources that  
7 might be offered to the California utilities. The  
8 greater the flexibility in the mitigation methods  
9 that California permits, the lower the cost impact  
10 that mitigation will have, and the more likely it  
11 is that the project could be added to the  
12 California resource mix.

13 In terms of evaluating an offsets  
14 program you should take some comfort in the fact  
15 that there are a lot of innovative mitigation  
16 methods that are emerging as the states,  
17 themselves, attempt to address greenhouse gas  
18 reductions. And these innovations should be  
19 encouraged.

20 Now, I wanted to talk to you about one  
21 with which we were acquainted not too long ago,  
22 and that would be the Climate Trust of Oregon.  
23 Under programs supervised by the Oregon Energy  
24 Facility Siting Council, the Trust solicits, on  
25 behalf of developers, proposals by which CO2

1 emissions from projects submitted for siting  
2 approval can be offset either directly at the  
3 project or indirectly through offsets.

4 The Trust is a nonprofit, independent  
5 organization. It offers its services to project  
6 developers. It covers the full gamut from  
7 solicitation, selection, verification and  
8 reporting back to the Siting Commission and other  
9 state authorities.

10 It has been able to achieve a cost of  
11 about \$2.50 per ton of CO2 reduction, both in the  
12 form of direct mitigation and indirectly through  
13 offsets. This is an option that we would intend  
14 to explore if we were permitted to be a developer  
15 of a project that would enter into an agreement  
16 with a California utility.

17 And unlike turning the project away to  
18 be sold to non-jurisdictional entities, it would  
19 directly -- permitting us to use offsets in this  
20 manner is part of the contract -- would directly  
21 affect the total CO2 emissions at the plant and  
22 the California, or I should say, energy sector  
23 contribution of CO2 to greenhouse gas emission  
24 inventories.

25 One other matter that we are also

1 exploring actively at this time was mentioned by  
2 Mr. Ackerman, and that's production blending,  
3 coupling a renewable resource development with  
4 conventional coal projects as a mitigation method.  
5 So, we understand that there may be some  
6 controversy over whether if we do that the  
7 renewable credits would still be able to be used  
8 to meet the California renewable portfolio  
9 standards. We haven't done our economic analysis  
10 on whether or not that was an essential part of  
11 this or not.

12 But as we combine all of these different  
13 kinds of strategies, offsets, mitigation, direct  
14 and indirect, we're still at the point where coal  
15 can be competitive without harming the ability of  
16 California, through an energy policy, to try to  
17 reach the Governor's objective with respect to  
18 greenhouse gases.

19 And I'm sure you're aware, and we  
20 certainly are aware, of the view that the long-  
21 term procurement on restrictions that are being  
22 considered in this IEPR and that were adopted by  
23 the CPUC yesterday are part of the stop-Granite-  
24 Fox-program. Again, I will tell you, that project  
25 is going to find market regardless of the



1 California policy.

2 And it still may find California market  
3 even if the policy is adopted, because as we know,  
4 the CPUC is about to adopt a capacity program  
5 under its resource adequacy requirement. There  
6 will be a need for the utilities to firm their  
7 renewable requirements under the resource adequacy  
8 rules. Whether that's done through contracts of  
9 less than three years, or a year ahead as  
10 contemplated under the current rules, or a month  
11 ahead, we think that Granite Fox can fit that  
12 bill, as well.

13 And it would escape the policy, which  
14 is, you know, sort of an uncomfortable evasion for  
15 us, but nevertheless, supports the project.

16 And again, as I said, in terms of the  
17 energy dispatch we think that Granite Fox, under  
18 its current configurations, and whether or not we  
19 include mitigation in the costs of operation of  
20 that facility, is obviously going to dispatch  
21 against a gas combined cycle, even if that  
22 combined cycle plant is supported by a long-term  
23 utility contract.

24 At \$6 gas, we're four times -- gas  
25 dispatch is four times more expensive. At \$8 it's

1 six times more expensive. Unless the ISO reforms  
2 its rules to effect an environmental dispatch as  
3 opposed to an economic dispatch, we suspect that  
4 this bar may not have the effect, if this is  
5 what's trying to be accomplished, of keeping  
6 Granite Fox or any other conventional coal project  
7 out of the California market.

8 As I said, we have financial interests  
9 on both sides of this policy. But we think that  
10 in the long run if we can pretend to own a public  
11 service interest, it is that California should  
12 consider using coal as part of its resource mix.  
13 And we think that there are strategies by which  
14 you can harmonize the use of coal using  
15 conventional pulverized coal technologies without  
16 harming the ability to achieve the Governor's  
17 objectives.

18 We're going to have some other comments  
19 that we'll file in writing with respect to the  
20 entire report. Again, let me go back to my  
21 opening remarks, this is an incredible piece of  
22 work. The fact that a lot of the recommendations  
23 are controversial, I think, are testament to the  
24 fact that you got the issues right. We didn't  
25 expect to see a whole lot of agreement around the

1 most controversial subjects.

2 But this is an extraordinary effort and  
3 you have considerably added to the progress we  
4 make in making our choices about what our future  
5 is going to be like.

6 So, if there are any questions I'd be  
7 happy to answer those.

8 PRESIDING MEMBER GEESMAN: Well, thank  
9 you for that detailed statement, Alan. I want to  
10 focus on what I'm sure you thought we would focus  
11 on, which is the greenhouse gas standard.

12 And numerically I do follow the  
13 rationale of your argument about achieving, or  
14 being able, with a pulverized project like Granite  
15 Fox, to, through mitigation and offsets, achieve  
16 the numerical aspects of the Governor's targets.

17 I'm also mindful of the fact that with  
18 respect to a lot of people there are reasons far  
19 beyond economics that govern their view or  
20 attitude toward the use of pulverized coal in the  
21 state's resource mix.

22 I want to focus on the financial  
23 question. The Public Utilities Commission, in  
24 their policy adopted in the December 2004  
25 procurement decision, focused on the financial

1 risk of future carbon regulation. They set a  
2 number of \$8 a ton of CO2. You indicated that the  
3 project's ability to absorb that level of  
4 financial risk.

5 My first question to you is what if that  
6 number is materially higher? When they chose \$8 -  
7 -

8 MR. PAK: Yeah.

9 PRESIDING MEMBER GEESMAN: -- they were  
10 looking at a range of \$8 to \$25. I'm told that  
11 the deep ecologists of Idaho used a \$12 proxy.  
12 What if it is \$25, and your \$3 to \$4 a megawatt  
13 hour is, in fact, closer to \$10 or \$15?

14 MR. PAK: We would be out of the market.  
15 And let me tell you how we reached the conclusion.  
16 When we saw the PUC's range of \$8 to \$25, we were,  
17 at that point, thinking that California would be a  
18 primary market for this plant's capacity and  
19 energy.

20 So when the PUC said that any contract  
21 that would be signed with a coal project needed to  
22 take into account the future risks of CO2  
23 regulation, and that the value of that financial  
24 risk was somewhere between \$8 and \$25, we ran  
25 scenarios to determine whether or not this project

1 was economic in the California market and whether  
2 we should proceed to continue with the development  
3 of the project.

4 At \$8 we are competitive. At \$25 we are  
5 not. That adds something in the order of \$11 to  
6 \$13 per megawatt hour to the cost of the  
7 dispatch. Somewhere between there, but  
8 obviously closer to the \$8 level than the \$25  
9 level, we're sort of at a push.

10 So, depending on what the actual costs  
11 are, we can be in-market or out-of-market, at  
12 least with respect to California. And what we  
13 have spent a lot of time doing in the last six  
14 months is evaluating from a financial perspective,  
15 as well as a realistic perspective, of whether we  
16 could actually achieve costs lower than \$8.

17 And as I said, we have found people  
18 coming to us who have provided us with strategies  
19 that are more economic than 8. Chicago Board of  
20 Trade figures are considerably below the figures I  
21 cited for the Oregon Trust.

22 Now, the question is whether the  
23 mitigation, whether the offsets that you would  
24 permit and recognize in California are the kinds  
25 that are traded and the kinds that the Trust can

1 effect.

2 We hope that this is the first of many  
3 dialogues about what can and can't be counted as  
4 an offset. And that would obviously affect the  
5 price. But so long as we could find a range  
6 somewhere close to the \$8 and below say \$10 to  
7 \$12, I think we're still in-market and we don't  
8 frustrate your ability to achieve the Governor's  
9 goals.

10 PRESIDING MEMBER GEESMAN: But just to  
11 be clear, in that circumstance where the ultimate  
12 cost of carbon regulation did prove to be such  
13 that you'd estimate that you'd be out-of-market, I  
14 presume if the utility or the state were to  
15 achieve its fuel diversification or security  
16 objectives, that you would suggest that be a risk  
17 absorbed by the utility and its customers.

18 MR. PAK: Frankly, I don't think that we  
19 could have a serious discussion with a utility if  
20 future risk was unresolved, which is why it is our  
21 intended contract strategy to negotiate with the  
22 utilities so that they're confident that that risk  
23 is somehow expressed in terms of an allocation of  
24 the burdens of the risk between the developer as  
25 well as the utility.

1                   PRESIDING MEMBER GEESMAN: So it would  
2 be something nailed down at the very outset?

3                   MR. PAK: You know, at this point I'm  
4 sure I can speak for Robb. He wouldn't sign a  
5 contract unless it was addressed.

6                   PRESIDING MEMBER GEESMAN: So, if the  
7 PUC really has captured the principal area of  
8 concern here, the prospect of future carbon  
9 regulation, and we go forward with a procurement  
10 policy that sets a greenhouse gas standard as the  
11 Committee draft has proposed it, but we do allow  
12 an offsets package to satisfy that standard, how  
13 can we be assured that some future carbon  
14 regulatory regime, whether it be regional or  
15 national or global in nature, will recognize those  
16 offsets, or grandfather that earlier agreement?

17                  MR. PAK: You know, I don't think we  
18 can. But I think at that point, and I should have  
19 addressed this, I just note as a paragraph I had  
20 skipped.

21                  Granite Fox and the new generation of  
22 conventional coal projects are still  
23 environmentally superior to the 1960s vintage of  
24 coal plants that are currently serving the  
25 utilities and the energy markets.

1           So when you get to the point where  
2       you're talking about a regime where CO2 and other  
3       greenhouse gases are going to be regulated,  
4       limited and reduced, we still think that we're in-  
5       market as compared to other legacy plants on which  
6       this procurement policy really doesn't reach.

7           So we think at that point there will be  
8       a reevaluation of what counts, how you operate  
9       under those restrictions. And we think that we're  
10      going to be competitively positioned as against  
11      other kinds of resources that are in-market.

12           PRESIDING MEMBER GEESMAN: Well, I  
13      certainly thank you for your comments. I want to  
14      compliment you for the detailed written comments  
15      that you've submitted to us in the past. And I'm  
16      hopeful that we can look forward to seeing  
17      comparable detail in what you turn in to us next  
18      week.

19           MR. PAK: I think you'll see that, yes.

20           PRESIDING MEMBER GEESMAN: Great.

21           MR. PAK: Thank you, Commissioners.

22           PRESIDING MEMBER GEESMAN: Thanks,  
23      again. Audrey Chang, NRDC.

24           MS. CHANG: Good morning, Chairman,  
25      Commissioners, Staff. Audrey Chang from the



1 Natural Resources Defense Council.

2 I'd like to just focus on three points  
3 today. I know we're running a little bit into the  
4 lunch hour, so I'll keep it brief. But I will  
5 focus on chapter 3 and the changes that we would  
6 like to see there. And we'll elaborate further in  
7 our written comments that we'll be submitting next  
8 week.

9 First, most importantly, we would urge  
10 the Commission to include in the IEPR a  
11 recommendation for next year and future IEPRs to  
12 examine the future resource mix that California  
13 will have with the collection of different  
14 resource fuel types on the resource plans of all  
15 load-serving entities.

16 As figure 6 on page 33 shows, the CEC  
17 expresses concern that despite current policies to  
18 diversify California's fuel sources, California  
19 supply is not diverse enough. And if we're  
20 concerned about today's diversity, then what's  
21 California's system going to look like in ten  
22 years.

23 Also on page 51, it notes that no one is  
24 considering the long-term economic impact on  
25 ratepayers. And that's exactly right. We need to

1 look at the future resource fuel types in order to  
2 make that assessment.

3 And these are the types of questions  
4 that a planning document such as the IEPR should  
5 be able to answer. What will the future resource  
6 mix for California look like; what costs do  
7 California ratepayers face; what risk does the  
8 state face; and what are the environmental  
9 impacts, greenhouse gases, et cetera. We haven't  
10 been able to answer this yet with the current data  
11 that's been collected.

12 What we are looking for as a generic  
13 analysis of fuel types on a state portfolio level  
14 to see what fuel types natural gas, conventional  
15 coal, IGCC, et cetera, are likely to emerge under  
16 current policies. And then we can determine if  
17 additional policies are needed to meet the state's  
18 policy goals.

19 We agree with the statement on page 45  
20 that we can't know the specific plans that are out  
21 there, but that's not reason to do this analysis,  
22 but we can ask for projections and not necessarily  
23 the incremental purchase decisions.

24 This sort of analysis is parallel to  
25 forecasting natural gas prices, retail rates, et

1       cetera. We don't know the future, but there is a  
2       benefit in forecasting these values.

3               so, in conclusion, on that point we  
4       recommend that the IEPR look at -- future IEPRs  
5       look at true resource planning from looking at the  
6       statewide future energy mix by collecting  
7       information from all LSEs regarding their future  
8       resource fuel types.

9               The second point that I have is that we  
10      urge that the current IEPR clarify how energy  
11      efficiency is accounted for in the demand  
12      forecast. We acknowledge that the current  
13      forecast, the decision has been made is that  
14      energy efficiency is not incorporated beyond the  
15      2008 point. But we do recommend that it is  
16      clarified whether or not PGC funds are included  
17      for post-2008. They should be at the very least,  
18      since that is legislatively mandated. And also  
19      whether or not future code updates are also  
20      included in the forecast.

21              Regardless, we also need to make it  
22      clear that a substantial portion of the state's  
23      growing load will be expected to be met by energy  
24      efficiency. It's about half the growing  
25      consumption is projected to be met by energy

1 efficiency.

2 And the third and final point that I  
3 have is that we urge future years IEPRs to perform  
4 analyses of bill impacts, not just looking at  
5 rates. In order to determine the true economic  
6 impacts on consumers, we need to look at the total  
7 bills they are paying, not just the rates that  
8 they are paying.

9 And with that, I'll conclude my  
10 comments. And we will definitely expand on them  
11 in our written comments.

12 PRESIDING MEMBER GEESMAN: Thank you  
13 very much. Bruce McLaughlin, California Municipal  
14 Utilities Association.

15 MR. McLAUGHLIN: Good morning,  
16 Commissioners. Just a couple quick comments.

17 First of all, yesterday I used biomass  
18 as a whipping boy, and I think I would like to  
19 clarify that certainly the munis believe that all  
20 resources that are low or no GHG are good  
21 resources. And so biomass is a great one, and I  
22 think I can safely say that we agree with all your  
23 recommendations on 103 and 104 of your IEPR here  
24 on biomass.

25 And then just a clarification we would

1       like on page 43 where it says the Energy  
2       Commission recommends that state policymakers  
3       provide a clear signal that all publicly owned  
4       utilities take on an explicit resource adequacy  
5       requirement. And I'm sure you're familiar with  
6       AB-380 which passed just a couple weeks ago, and  
7       it was passed since these words have been written.

8               So added to the Public Utilities Code  
9       9620, one sentence here, each local publicly owned  
10      electric utility serving end-use customers shall  
11      prudently plan for and procure resources that are  
12      adequate to meet its planning reserve margin and  
13      peak demand and operating reserves sufficient to  
14      provide reliable electric service to its  
15      customers.

16             Then below we have a minimum numerical  
17      standard which is WECC. We have an independent  
18      measurement mechanism, which is the IEPR. And  
19      then we have oversight where you take that IEPR  
20      and you give it to the Legislature, who's our  
21      boss. And they wrote these words.

22             So we do have exactly what you requested  
23      here. This, we do believe, is a good thing. And  
24      we have been following these standards. There  
25      might be -- well, I won't go there.

1                   Thank you very much. I wanted to get  
2                   that in the record.

3                   PRESIDING MEMBER GEESMAN: Thank you,  
4                   Bruce. Stuart Hemphill, Southern California  
5                   Edison.

6                   MR. HEMPHILL: Good morning,  
7                   Commissioners. Appreciate the opportunity to  
8                   speak again today. I'll be brief as I was  
9                   yesterday.

10                  I have some overall questions and then -  
11                  - excuse me, some overall comments, and then some  
12                  specific areas where I'd like some clarification  
13                  in the report, itself.

14                  I want to echo everything I heard, I  
15                  think, from Gary Ackerman this morning regarding  
16                  the role of coal and greenhouse gas policy for the  
17                  State of California. I thought he spoke of it  
18                  very well, and I was trying to find some area  
19                  where I disagreed with him, and I could be wrong,  
20                  but I didn't find any.

21                  I also appreciated the comments of Greg  
22                  Blue, who mentioned some of the issues that we had  
23                  related to trying to make sure that there's  
24                  adequate supply. He talked about the missing  
25                  megawatts. And we took actually the supply and

1 demand analysis from this Commission as our  
2 platform to seek new resources on behalf of  
3 southern California.

4 So we tried to step up, but the CPUC  
5 told us it was not our responsibility. and the  
6 ultimate question that I think California does  
7 need to address is who is responsible for assuring  
8 resources are available for grid liability. It is  
9 an important issue. It's something that we need  
10 to address. I'm not sure how that fits into this  
11 IEPR process, but it's something that is very  
12 critical for the State of California.

13 Secondly I wanted to talk a little bit  
14 about -- all of my specific issues relate to  
15 chapter 3 in your report. I want to talk about  
16 the retail electricity market. In California it's  
17 comprised of many retailers; we call them load-  
18 serving entities here.

19 As a retailer who is 70 percent reliant  
20 on contracts to meet customer needs, we cannot  
21 feel very confident or comfortable giving  
22 generators and marketers market-sensitive  
23 information related to quantity, price and  
24 contracting terms. We've seen long histories of  
25 that kind of information being provided to

1 generators and marketers. And its ultimate effect  
2 is increased prices for customers. That's as much  
3 as I'm going to say on that topic. And I'm sure  
4 you appreciate that.

5 Two areas of clarification in the  
6 report. The first is on page 32. It indicates  
7 IOUs focus on near- and mid-term contracts which  
8 perpetuate reliance on existing resources. What  
9 I'd like to see there is a recognition that all  
10 load-serving entities currently focus on mid- to  
11 medium-term contracts. And as far as I know,  
12 electric service providers in California  
13 exclusively rely on short- to medium-term  
14 contracts.

15 PRESIDING MEMBER GEESMAN: Now, were you  
16 here for Mr. Anderson's remarks?

17 MR. HEMPHILL: Yes, I was.

18 PRESIDING MEMBER GEESMAN: Don't they  
19 contradict what you just said?

20 MR. HEMPHILL: In what way?

21 PRESIDING MEMBER GEESMAN: Long-term  
22 contracts.

23 MR. HEMPHILL: Oh, the second point is  
24 that the IOUs are the only ones offering long-term  
25 contracts as far as I know. So those are my two



1 main points related to --

2 PRESIDING MEMBER GEESMAN: Some of the  
3 IOUs.

4 MR. HEMPHILL: Well, we certainly are  
5 doing that. We've done quite a bit of that over  
6 the last several years as we've increased our  
7 renewable --

8 PRESIDING MEMBER GEESMAN: That's  
9 correct.

10 MR. HEMPHILL: -- resources. I don't  
11 know of any electric service providers who are  
12 doing the same thing.

13 And finally on page 47 there is a  
14 discussion that says greater disclosure is  
15 warranted for IOUs because they are regulated  
16 monopolies. I just wanted to footnote or some  
17 clarification, the retail business is not a  
18 monopoly, which is a big part of contention. And  
19 one of the reasons why it is critical that we  
20 maintain confidentiality of information.

21 So, if there is some clarification that  
22 just points out, you may not agree necessarily  
23 with my points of view on this, but if there's  
24 some recognition that the retail business is not a  
25 monopoly, I'd appreciate that.

1                   Those are my comments.

2                   PRESIDING MEMBER GEESMAN: Thank you,  
3           Stuart. Those are all the blue cards that I have.  
4           Is there anyone else in the audience that cares to  
5           address us this morning before our lunch break?

6                   Is there anybody on the telephone?

7                   Okay, we're going to recess then for  
8           lunch. We'll come back at 1:00 and take up the  
9           natural gas issues.

10                   (Whereupon, at 12:05 p.m., the hearing  
11           was adjourned.)

12                               --o0o--

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